

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P323223

Luminaire Tested: **GAN-SA9D-740-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9D-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

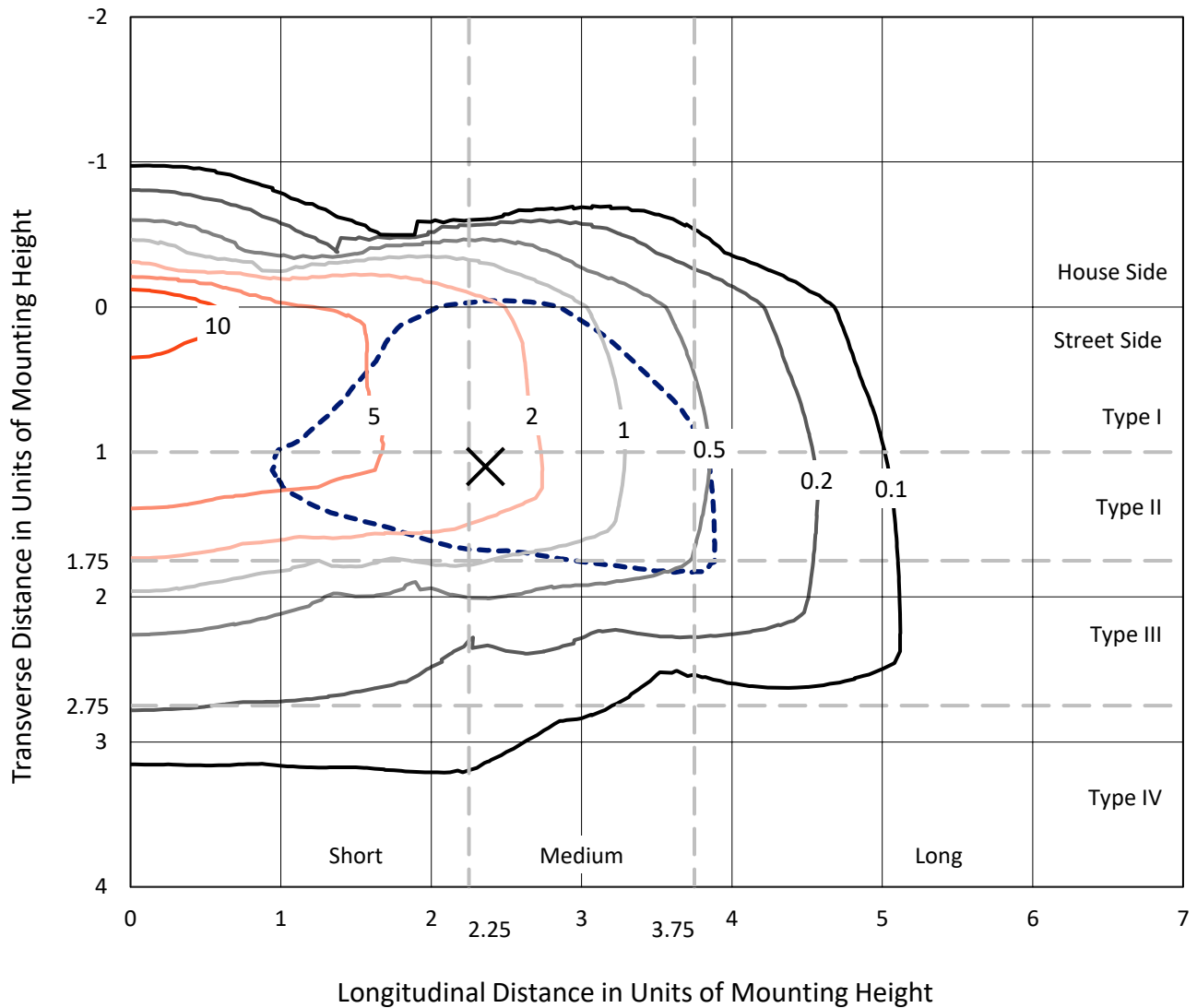
Lumens per Lamp: N/A  
Luminaire Lumens: 57455 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323223  
 CATALOG NUMBER: GAN-SA9D-740-U-SL2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

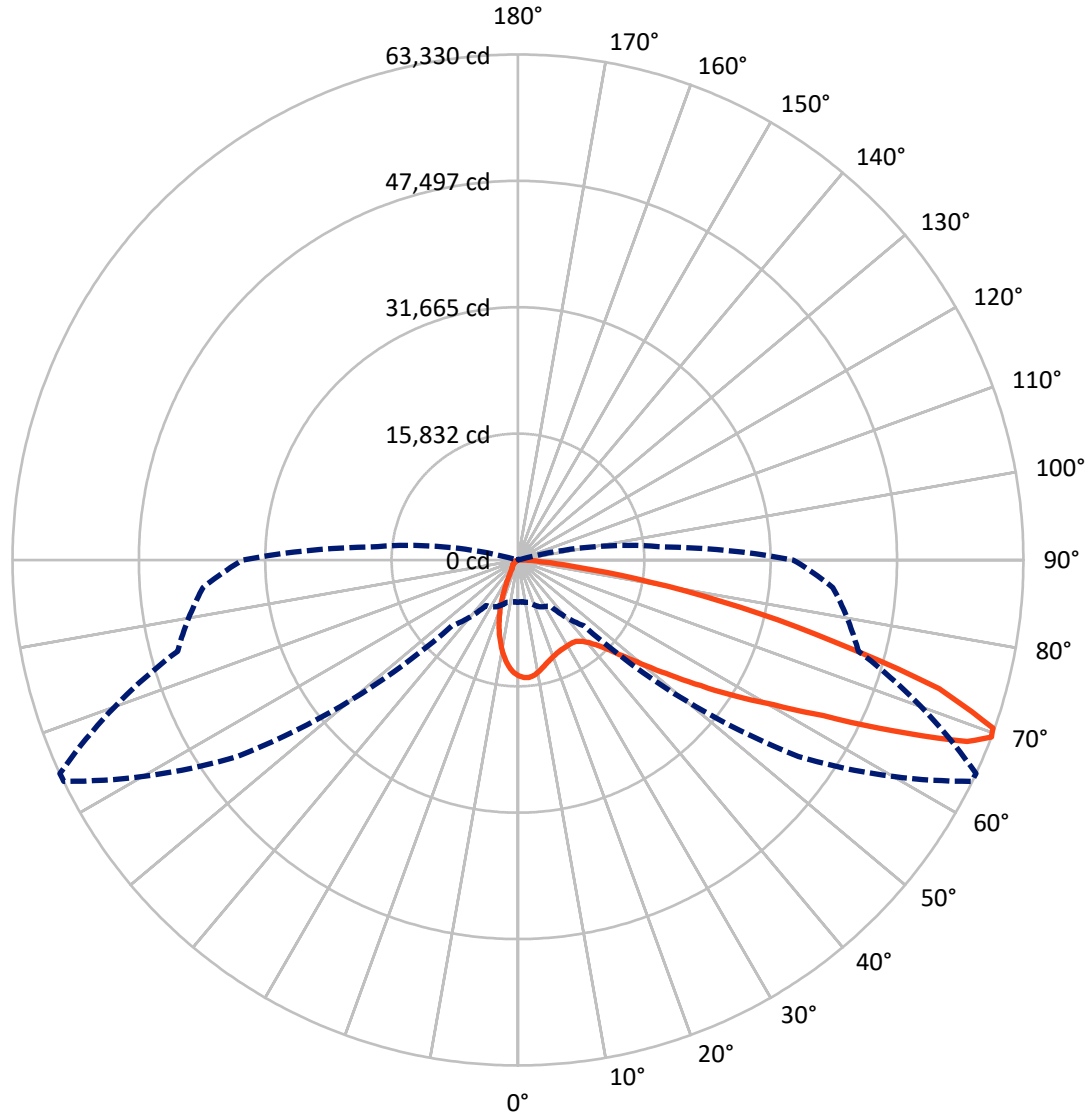
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 16.1 fc  
 Type III - Medium - N/A

REPORT NUMBER: P323223  
CATALOG NUMBER: GAN-SA9D-740-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GAN-SA9D-740-U-SL2-HSS

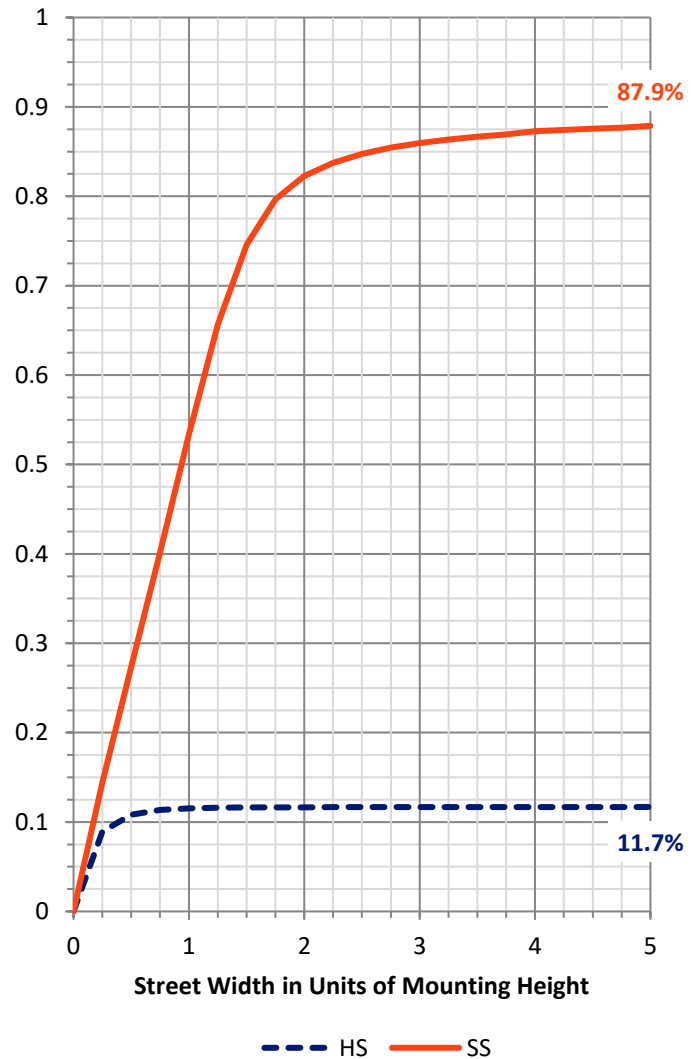
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6772.6	0.0	6772.6
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	50682.4	0.0	50682.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	57455.0	0.0	57455.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1214.1	2.1
10°-20°	2657.7	4.6
20°-30°	3681.0	6.4
30°-40°	5132.5	8.9
40°-50°	7977.6	13.9
50°-60°	12807.1	22.3
60°-70°	14487.0	25.2
70°-80°	8508.3	14.8
80°-90°	989.7	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	57455.0	100.0
0°-180°	57455.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P323223

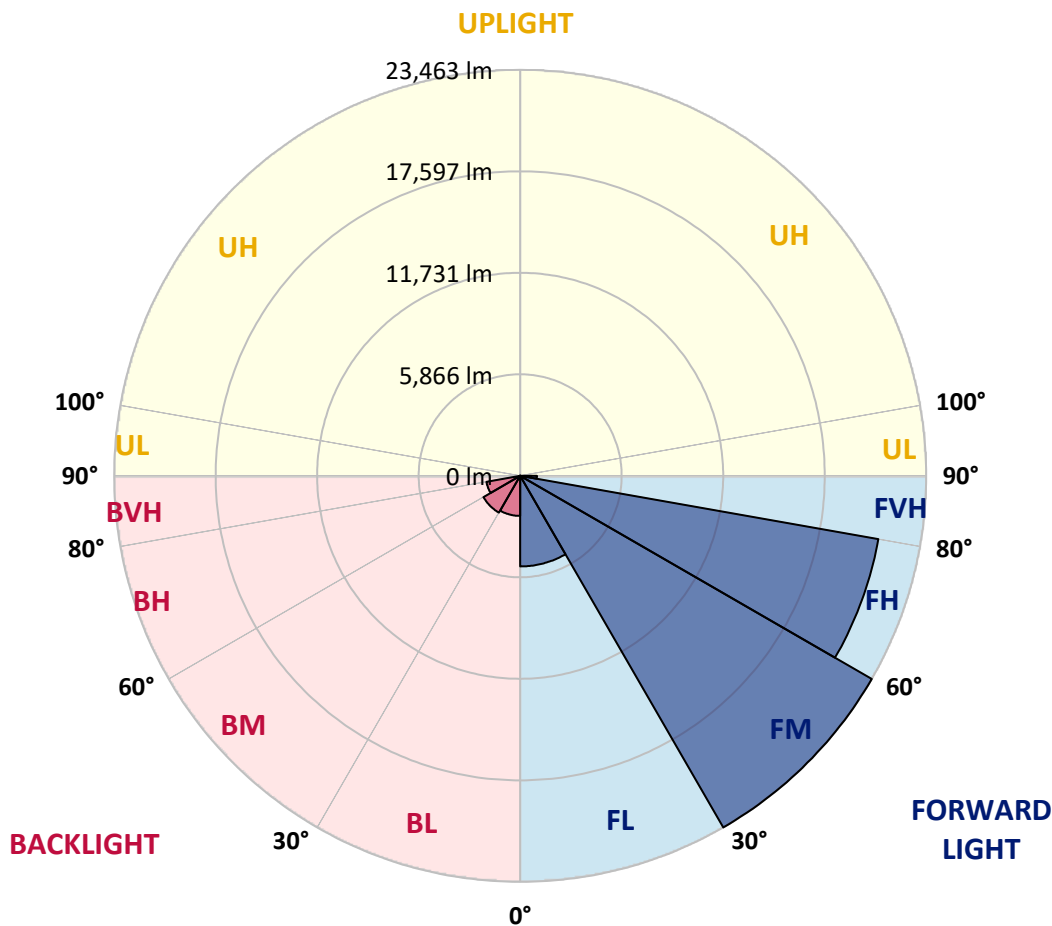
CATALOG NUMBER: GAN-SA9D-740-U-SL2-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5235.5	9.1			
FM (30°-60°)	23463.0	40.8			
FH (60°-80°)	21016.5	36.6			G5
FVH (80°-90°)	967.5	1.7			G5
BL (0°-30°)	2317.3	4.0	B3/2500		
BM (30°-60°)	2454.2	4.3	B2/2500		
BH (60°-80°)	1978.8	3.4	B3/2500		G3/2500
BVH (80°-90°)	22.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Medium





REPORT NUMBER: P323223

CATALOG NUMBER: GAN-SA9D-740-U-SL2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0
2.5°	14647.8	14611.4	14640.5	14703.7	14735.4	14735.4	14759.7	14730.5	14740.2	14669.7	14567.6
5°	13731.3	13675.4	13755.6	13933.1	14151.9	14339.1	14616.2	14762.1	14776.7	14779.1	14660.0
7.5°	12744.2	12693.2	12812.3	13021.4	13303.4	13651.0	14134.9	14557.9	14582.2	14810.7	14723.2
10°	11941.9	11905.5	12044.0	12267.7	12598.4	12987.3	13580.5	14168.9	14239.4	14745.1	14713.5
12.5°	11305.0	11275.8	11407.1	11664.8	12002.7	12433.0	13053.0	13736.1	13831.0	14596.8	14664.8
15°	10840.6	10835.7	10945.2	11193.1	11567.5	11968.7	12603.2	13335.0	13444.4	14436.3	14657.6
17.5°	10597.5	10604.8	10685.0	10896.5	11217.4	11616.2	12223.9	12997.1	13116.2	14292.9	14694.0
20°	10573.2	10580.5	10624.2	10743.4	11003.5	11356.0	11915.2	12712.6	12836.6	14185.9	14752.4
22.5°	10787.1	10782.3	10794.4	10782.3	10928.1	11195.6	11711.0	12493.8	12637.2	14115.4	14798.6
25°	11198.0	11190.7	11185.8	11095.9	10998.6	11142.1	11625.9	12369.8	12506.0	14064.3	14825.3
27.5°	11769.3	11764.5	11757.2	11608.9	11317.1	11227.2	11635.6	12323.6	12437.9	14023.0	14820.4
30°	12520.6	12554.6	12544.9	12338.2	11883.6	11487.3	11737.7	12299.3	12399.0	13942.8	14769.4
32.5°	13403.1	13471.1	13524.6	13303.4	12734.5	12002.7	11973.5	12326.1	12399.0	13882.0	14677.0
35°	14319.6	14407.1	14604.1	14526.3	13777.5	12778.3	12379.5	12486.5	12547.3	13916.0	14633.2
37.5°	15221.6	15326.1	15754.0	15980.1	15143.8	13804.2	13011.7	12882.8	12914.4	14122.7	14681.9
40°	16269.4	16427.5	17076.6	17441.3	16775.1	15177.8	13957.4	13563.5	13575.7	14577.3	14908.0
42.5°	17645.5	17808.4	18511.0	19082.3	18613.1	16913.7	15241.0	14604.1	14591.9	15428.2	15440.4
45°	19323.0	19493.2	20220.1	20854.6	20643.1	18970.5	16884.5	16123.6	16109.0	16770.2	16449.3
47.5°	21224.2	21391.9	22041.0	22695.0	22923.6	21372.5	18977.8	18197.3	18163.3	18635.0	18007.7
50°	22855.5	22964.9	23563.0	24443.0	25473.9	24323.9	21581.5	20830.3	20793.8	21112.3	20295.5
52.5°	23448.7	23511.9	24119.7	25352.3	27924.5	28320.8	25002.2	24034.6	24007.9	24146.4	23341.7
55°	22247.7	22362.0	23108.3	24936.6	29251.9	32837.9	29320.0	28002.3	27800.5	27501.5	26526.6
57.5°	18975.3	19157.7	19959.9	22391.1	28632.0	36421.4	35665.3	32490.2	32193.6	30365.4	29115.8
60°	14217.5	14441.2	15107.3	17730.6	25323.1	37697.8	42599.1	37491.2	36822.6	32645.8	31495.9
62.5°	9756.3	9868.1	10320.3	12029.5	18649.5	35607.0	48399.8	44189.0	42968.6	35125.6	34070.5
65°	7451.6	7490.5	7675.2	8263.6	11105.6	28923.7	50707.0	53026.4	51550.6	38091.7	36742.4
67.5°	6005.0	5973.4	6228.7	7069.9	7437.0	17645.5	48015.7	61387.2	60696.7	42056.9	39431.2
69°	5295.1	5251.3	5511.5	6488.8	6984.8	11664.8	42924.8	63285.9	63329.7	44150.1	39616.0
70°	4765.1	4794.3	5052.0	6143.6	6831.6	9155.8	38062.5	62802.1	63147.3	44933.0	38507.4
72.5°	3182.4	3260.2	3778.0	5100.6	6569.0	6928.8	22981.9	53891.9	55219.3	43170.4	33037.2
75°	1794.2	1852.6	2467.6	3846.1	6189.8	6598.2	12138.9	39703.5	40987.2	36100.5	25476.3
77.5°	880.1	911.7	1395.5	2482.2	5176.0	6287.0	6885.1	26969.0	28435.0	23563.0	14409.6
80°	372.0	389.0	697.7	1531.6	3700.2	6000.1	5112.8	16597.6	16780.0	9231.2	3838.8
82.5°	143.4	148.3	294.2	955.5	2350.9	4677.6	4276.4	7869.7	7680.1	1738.3	875.2
85°	17.0	19.4	107.0	573.8	1308.0	2406.9	3474.1	3391.5	3138.6	345.2	449.8
87.5°	0.0	0.0	7.3	175.0	389.0	1128.1	1806.4	1407.7	1269.1	111.8	233.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323223

CATALOG NUMBER: GAN-SA9D-740-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0	14519.0
2.5°	14482.5	14458.2	14326.9	14137.3	13957.4	13733.7	13519.8	13390.9	13288.8	13220.7	13301.0
5°	14521.4	14414.4	14015.7	13505.2	13004.4	12440.3	11915.2	11470.3	11295.2	11100.7	11188.3
7.5°	14509.3	14307.5	13590.3	12681.0	11762.0	10811.4	9911.9	9219.0	8859.2	8506.7	8596.6
10°	14448.5	14108.1	13021.4	11674.5	10298.5	8932.1	7655.8	6685.7	6143.6	5652.5	5723.0
12.5°	14314.8	13840.7	12350.4	10522.1	8681.7	6880.2	5385.1	4142.7	3476.6	3182.4	3218.9
15°	14234.5	13580.5	11640.5	9355.2	6955.6	4791.8	3291.8	2448.2	2144.3	2047.0	2059.2
17.5°	14195.6	13330.1	10906.3	8020.4	5190.6	3051.1	2127.3	1876.9	1811.2	1794.2	1799.1
20°	14156.7	13077.3	10150.2	6700.3	3576.3	2051.9	1748.0	1675.1	1650.8	1628.9	1633.7
22.5°	14091.1	12834.2	9338.1	5363.2	2411.7	1665.4	1575.4	1504.9	1453.8	1427.1	1432.0
25°	14010.9	12578.9	8509.1	3994.4	1760.2	1485.4	1400.4	1300.7	1239.9	1191.3	1193.7
27.5°	13882.0	12265.3	7653.3	2907.7	1478.2	1329.9	1215.6	1106.2	1004.1	948.2	948.2
30°	13702.1	11910.3	6702.8	2081.1	1325.0	1176.7	1038.1	902.0	792.6	741.5	736.6
32.5°	13502.7	11540.8	5742.4	1577.8	1203.4	1033.2	875.2	731.8	634.5	593.2	590.8
35°	13332.6	11142.1	4784.6	1322.6	1081.9	894.7	722.1	600.5	522.7	488.7	486.2
37.5°	13223.2	10743.4	3851.0	1181.6	972.5	765.8	605.4	496.0	440.0	413.3	410.9
40°	13206.1	10446.8	2997.6	1074.6	870.4	651.6	505.7	420.6	369.5	340.4	337.9
42.5°	13427.4	10276.6	2299.9	984.6	765.8	551.9	430.3	359.8	306.3	277.2	274.7
45°	14008.4	10330.1	1769.9	904.4	661.3	466.8	364.7	299.0	250.4	228.5	223.7
47.5°	15068.4	10699.6	1407.7	824.2	561.6	396.3	311.2	248.0	206.6	184.8	182.3
50°	16955.0	11567.5	1176.7	736.6	469.2	337.9	257.7	201.8	167.8	148.3	145.9
52.5°	19459.1	13113.8	1050.3	651.6	389.0	286.9	211.5	160.5	131.3	116.7	114.3
55°	22220.9	14985.8	967.6	559.2	318.5	238.3	167.8	126.4	102.1	90.0	85.1
57.5°	24917.1	16607.4	889.8	469.2	265.0	194.5	133.7	99.7	80.2	68.1	65.6
60°	27394.5	18097.7	799.9	376.8	216.4	153.2	104.5	77.8	63.2	51.1	51.1
62.5°	30046.9	19250.0	675.9	294.2	177.5	116.7	85.1	70.5	51.1	43.8	41.3
65°	32857.3	20105.8	530.0	228.5	138.6	87.5	70.5	72.9	41.3	31.6	29.2
67.5°	34933.6	19935.6	391.4	179.9	107.0	68.1	68.1	77.8	36.5	24.3	21.9
69°	34476.5	18552.3	328.2	155.6	92.4	58.3	63.2	77.8	34.0	21.9	19.4
70°	33151.5	17020.7	289.3	138.6	82.7	53.5	60.8	75.4	31.6	21.9	19.4
72.5°	27608.4	12819.6	226.1	104.5	65.6	43.8	51.1	65.6	31.6	21.9	17.0
75°	20767.1	8205.2	172.6	75.4	48.6	34.0	38.9	48.6	31.6	19.4	17.0
77.5°	11300.1	2958.7	124.0	51.1	34.0	26.7	26.7	36.5	29.2	14.6	9.7
80°	2905.3	743.9	77.8	34.0	26.7	19.4	17.0	24.3	17.0	2.4	0.0
82.5°	717.2	167.8	41.3	24.3	19.4	7.3	7.3	12.2	7.3	0.0	0.0
85°	393.9	82.7	26.7	17.0	9.7	0.0	0.0	2.4	0.0	0.0	0.0
87.5°	201.8	24.3	7.3	4.9	2.4	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)