

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: P322582

Luminaire Tested: **GAN-SA8D-740-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P322582  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA8D-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

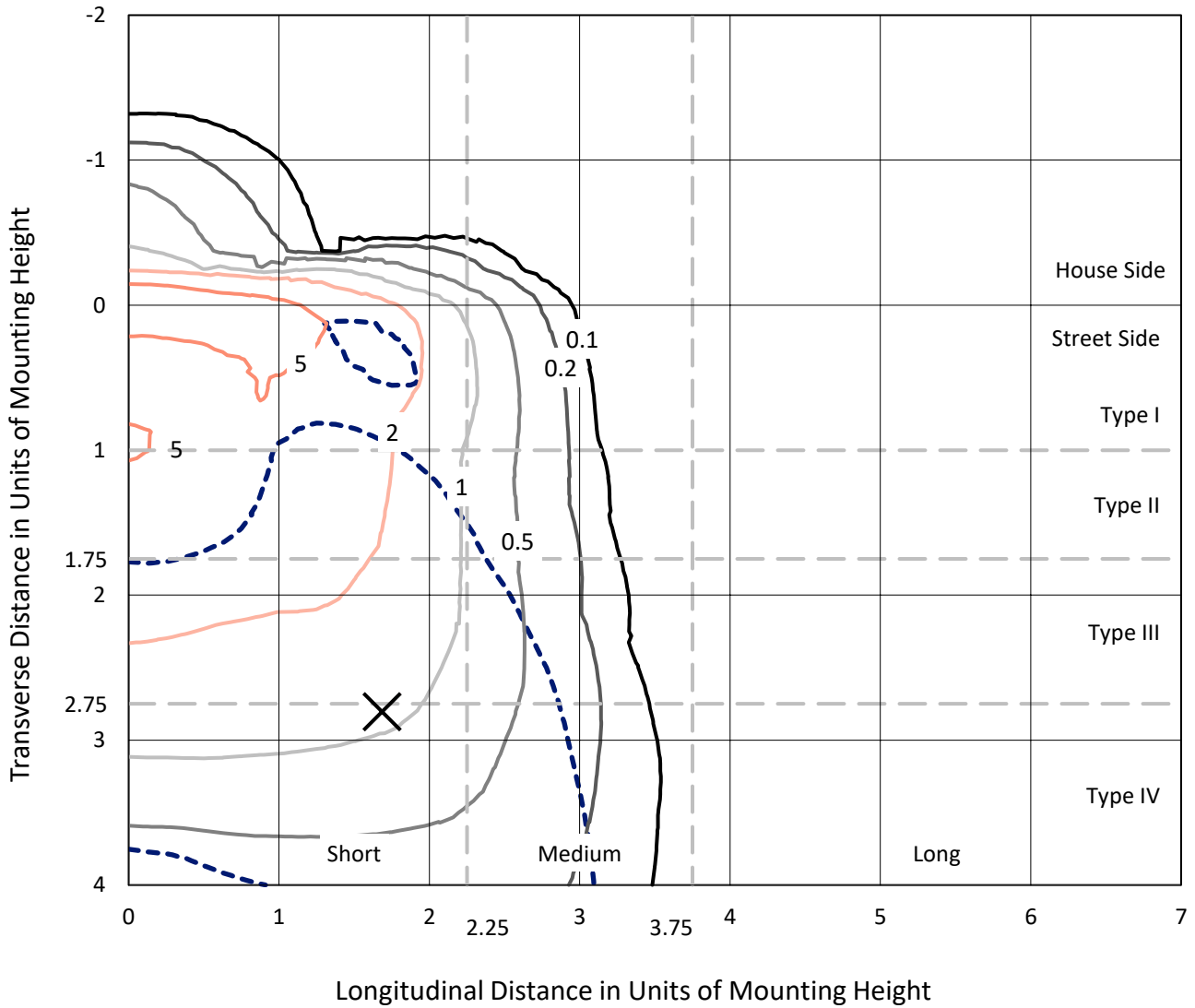
Lumens per Lamp: N/A  
Luminaire Lumens: 44160 lumens  
Efficiency: N/A  
Efficacy: 86.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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



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### Iso-Footcandle Lines of Horizontal Illumination

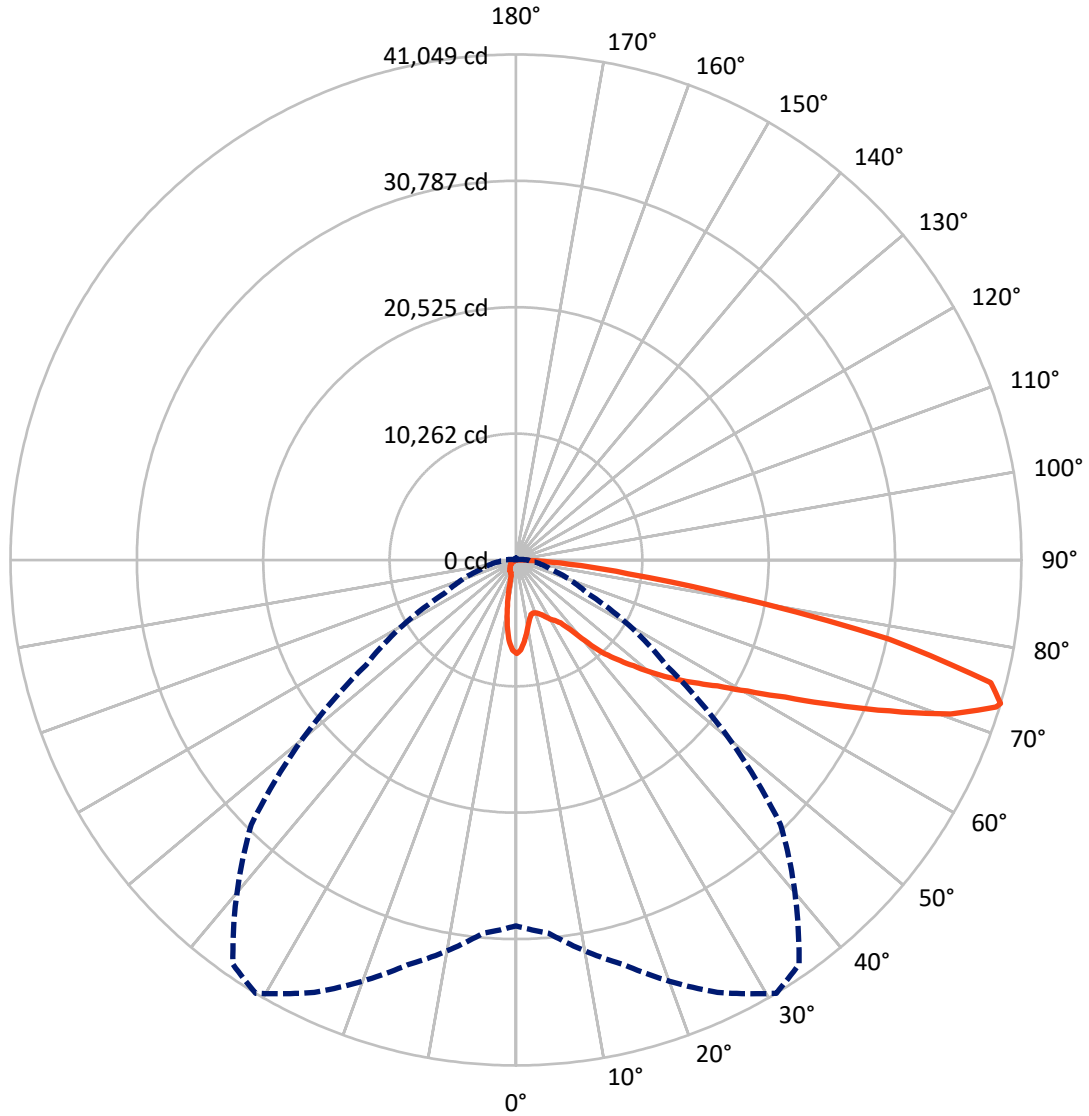
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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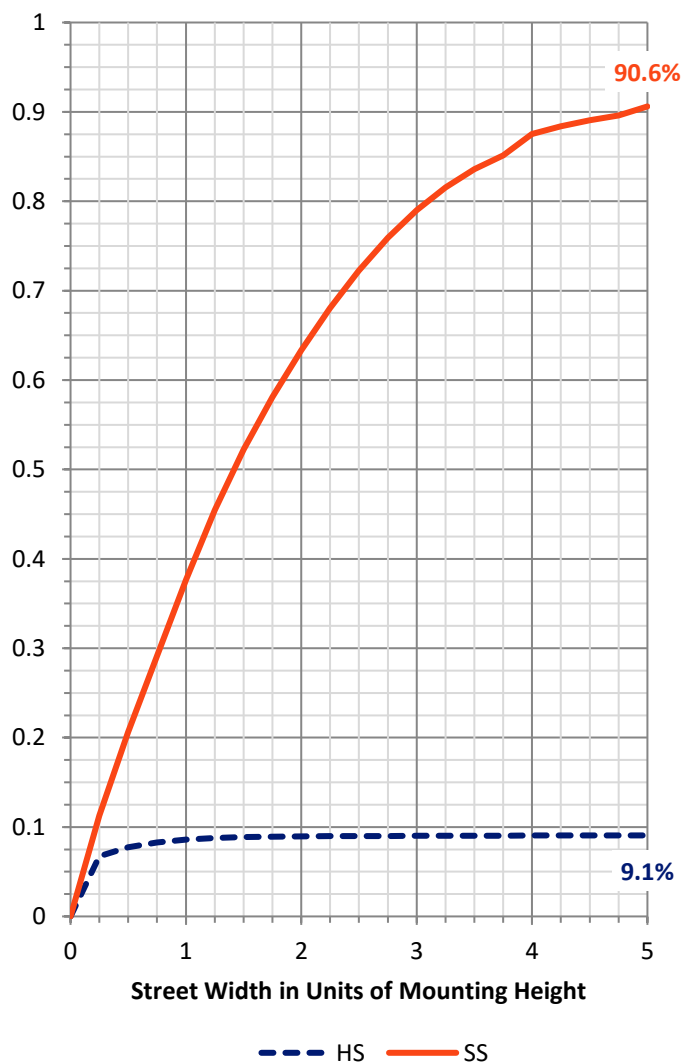
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4025.3	0.0	4025.3
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	40134.7	0.0	40134.7
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	44160.0	0.0	44160.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	630.0	1.4
10°-20°	1367.8	3.1
20°-30°	2049.4	4.6
30°-40°	3260.6	7.4
40°-50°	5822.6	13.2
50°-60°	9035.0	20.5
60°-70°	12010.8	27.2
70°-80°	9034.5	20.5
80°-90°	949.3	2.1
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°	44160.0	100.0
0°-180°	44160.0	100.0

**Coefficient of Utilization**



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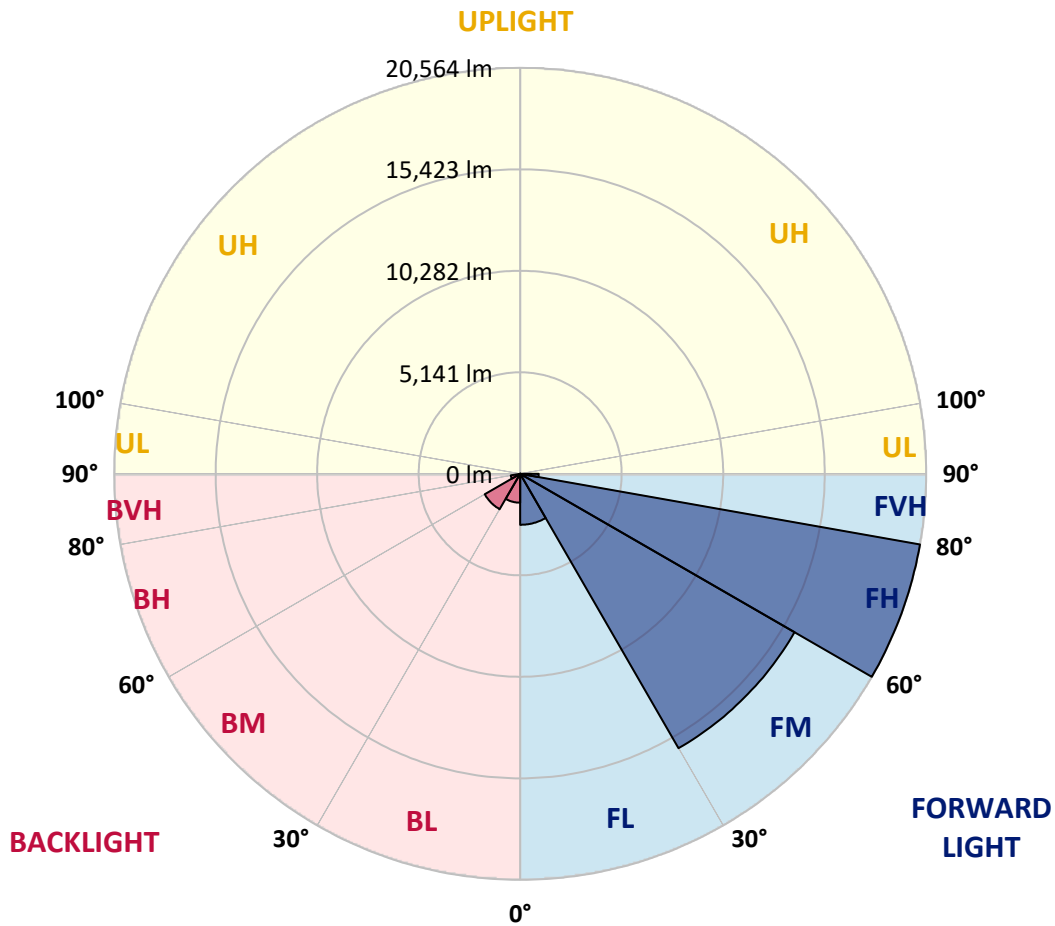
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2583.4	5.9			
FM (30°-60°)	16046.2	36.3			
FH (60°-80°)	20563.7	46.6			G5
FVH (80°-90°)	941.4	2.1			G5
BL (0°-30°)	1463.8	3.3	B3/2500		
BM (30°-60°)	2072.0	4.7	B2/2500		
BH (60°-80°)	481.6	1.1	B1/500		G1/500
BVH (80°-90°)	8.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8
2.5°	7200.2	7230.5	7262.9	7269.4	7323.4	7325.5	7403.3	7461.7	7520.0	7576.2	7595.7
5°	6461.2	6510.9	6569.2	6627.6	6742.1	6787.5	6977.6	7172.1	7358.0	7535.2	7621.6
7.5°	5672.4	5728.6	5810.7	5955.5	6083.0	6171.6	6472.0	6817.7	7163.5	7489.8	7677.8
10°	4952.8	5004.7	5091.1	5244.6	5441.2	5562.2	5966.3	6446.0	6953.9	7448.7	7762.0
12.5°	4494.7	4522.8	4570.4	4734.6	4911.8	5047.9	5523.3	6117.6	6781.0	7446.6	7898.2
15°	4410.5	4419.1	4380.2	4453.7	4592.0	4723.8	5205.7	5851.8	6649.2	7481.1	8075.4
17.5°	4544.4	4540.1	4410.5	4401.8	4512.0	4620.1	5050.1	5668.1	6556.3	7561.1	8304.4
20°	4747.6	4732.4	4507.7	4466.6	4583.3	4684.9	5039.3	5599.0	6521.7	7695.1	8583.2
22.5°	5017.7	4991.7	4639.5	4596.3	4721.6	4827.5	5173.3	5665.9	6551.9	7874.4	8907.3
25°	5352.6	5313.7	4866.4	4818.9	4946.4	5052.2	5413.1	5858.3	6642.7	8092.7	9317.9
27.5°	5730.8	5674.6	5229.4	5106.3	5251.1	5361.3	5732.9	6152.2	6785.3	8323.9	9821.4
30°	6087.3	6013.9	5611.9	5408.8	5586.0	5709.2	6078.7	6502.2	7014.4	8680.4	10510.7
32.5°	6446.0	6363.9	5953.4	5711.3	5871.2	6005.2	6435.2	6984.1	7444.4	9225.0	11427.0
35°	7271.5	7185.1	6681.6	6281.8	6279.7	6355.3	6934.4	7643.2	8012.7	9983.5	12520.4
37.5°	8661.0	8611.3	8131.6	7373.1	7170.0	7085.7	7615.1	8429.8	8829.5	11027.2	13754.3
40°	10182.3	10139.1	9601.0	8913.8	8604.8	8397.4	8591.8	9525.4	9983.5	12302.2	15014.1
42.5°	11900.2	11694.9	10735.5	10530.2	10253.6	10095.8	9920.8	10875.9	11401.0	13689.5	16263.1
45°	13460.4	13114.7	11870.0	11558.8	11496.1	11535.0	11632.3	12691.1	12995.8	15338.3	17507.8
47.5°	14389.6	14117.3	13162.2	12864.0	12846.7	13103.9	13838.6	14741.8	14584.1	16775.3	18603.4
50°	15273.4	15027.1	14234.0	14307.5	14387.5	14737.5	16343.1	16850.9	16034.1	18078.3	19608.2
52.5°	15988.7	15612.7	15197.8	15610.5	16003.8	16567.8	18927.6	18743.9	17062.7	19115.6	20468.3
55°	16401.4	16230.7	16431.7	16846.6	17585.6	18501.9	21367.2	20319.2	17814.7	20062.0	21040.9
57.5°	17914.1	17579.1	17978.9	18337.6	19301.4	20582.8	23456.9	21492.6	18357.1	20647.7	21172.8
60°	19744.4	19474.3	19709.8	20306.2	21607.1	23113.3	25410.3	22449.9	18640.2	21023.7	20831.3
62.5°	22657.3	22300.8	22153.8	22821.5	24546.0	26190.4	26892.7	23113.3	18577.5	20857.3	19660.1
65°	26560.0	26190.4	25533.5	26138.6	28331.9	29492.3	28550.2	23253.7	18145.3	19511.0	16699.6
67.5°	30557.7	30289.7	29727.9	30747.8	32727.2	33101.1	30302.7	22912.3	16753.7	15820.1	11798.7
70°	33198.3	33083.8	33449.0	35705.0	37470.5	37362.4	31910.4	21077.7	13058.5	9728.5	5836.7
72.5°	31294.5	31843.4	34540.3	38630.9	40787.5	39905.8	31084.9	16185.3	7463.8	3742.7	1687.7
73°	29717.1	30419.4	34049.7	38741.1	41049.0	40083.0	30391.3	14856.4	6361.8	2954.0	1279.3
75°	20673.6	21535.8	28189.3	36081.0	39825.9	38190.1	25332.5	9093.2	2947.5	1309.5	516.5
77.5°	10037.5	10675.0	15521.9	26069.4	30972.6	29838.1	15770.4	3388.3	1331.1	819.0	237.7
80°	3747.0	4166.3	6737.8	13268.1	17899.0	18367.9	6936.6	1281.4	886.0	659.1	121.0
82.5°	981.1	1093.4	2485.1	5916.6	9173.1	9601.0	2186.9	646.1	648.3	542.4	73.5
85°	313.3	358.7	775.8	2655.8	4321.9	3794.6	570.5	313.3	471.1	404.1	41.1
87.5°	38.9	49.7	246.3	624.5	953.0	529.4	88.6	92.9	201.0	224.7	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8	7597.8
2.5°	7615.1	7604.3	7606.5	7550.3	7513.5	7440.1	7364.4	7329.9	7293.1	7278.0	7293.1
5°	7654.0	7634.6	7578.4	7405.5	7221.8	6984.1	6761.5	6593.0	6381.2	6322.9	6383.4
7.5°	7714.5	7675.6	7511.4	7159.2	6750.7	6296.9	5787.0	5415.3	5110.6	4913.9	4985.3
10°	7803.1	7729.6	7399.0	6800.4	6070.0	5266.2	4542.3	3978.3	3578.5	3414.3	3407.8
12.5°	7952.2	7813.9	7260.7	6333.7	5238.1	4166.3	3217.6	2606.1	2281.9	2072.3	2068.0
15°	8116.4	7913.3	7085.7	5774.0	4270.0	2984.2	2072.3	1607.7	1398.1	1331.1	1322.5
17.5°	8317.4	8027.8	6858.8	5084.7	3256.5	1977.2	1352.7	1218.8	1210.1	1203.6	1203.6
20°	8570.2	8164.0	6567.1	4295.9	2310.0	1320.3	1149.6	1158.3	1162.6	1153.9	1156.1
22.5°	8864.1	8302.3	6219.1	3448.8	1562.4	1104.2	1099.9	1110.7	1115.0	1110.7	1112.9
25°	9205.5	8462.2	5795.6	2560.7	1128.0	1048.0	1058.9	1074.0	1084.8	1084.8	1084.8
27.5°	9629.1	8656.7	5285.6	1787.1	974.6	989.7	1020.0	1048.0	1063.2	1067.5	1067.5
30°	10180.1	8898.7	4674.1	1225.2	886.0	911.9	968.1	1022.1	1050.2	1054.5	1056.7
32.5°	10875.9	9171.0	3965.3	905.4	810.3	829.8	890.3	981.1	1035.1	1043.7	1043.7
35°	11673.3	9486.5	3202.5	788.7	756.3	762.8	810.3	914.1	1009.2	1032.9	1035.1
37.5°	12546.3	9797.6	2435.4	736.9	710.9	710.9	745.5	834.1	946.5	1020.0	1028.6
40°	13361.0	9985.6	1707.1	695.8	669.9	669.9	700.1	765.0	870.9	981.1	1004.8
42.5°	14113.0	10050.5	1188.5	656.9	631.0	637.5	663.4	715.3	795.2	905.4	927.0
45°	14886.6	10039.7	866.5	611.5	592.1	611.5	631.0	669.9	728.2	790.9	795.2
47.5°	15470.1	9948.9	687.2	568.3	555.4	581.3	598.6	624.5	656.9	652.6	652.6
50°	16016.8	9728.5	553.2	510.0	518.6	548.9	557.5	566.2	568.3	527.3	522.9
52.5°	16431.7	9384.9	443.0	447.3	481.9	512.1	503.5	490.5	468.9	419.2	410.6
55°	16570.0	8723.7	347.9	369.5	427.9	466.8	434.3	406.3	365.2	324.1	315.5
57.5°	16319.3	7870.1	283.1	287.4	360.9	393.3	356.6	324.1	278.8	244.2	237.7
60°	15787.7	6921.4	233.4	216.1	278.8	306.9	283.1	250.7	209.6	183.7	181.5
62.5°	14733.2	5910.1	192.3	168.6	211.8	235.5	220.4	196.6	162.1	144.8	142.6
65°	12516.1	4728.1	155.6	136.1	164.2	183.7	170.7	153.4	127.5	114.5	112.4
67.5°	8736.6	3196.0	127.5	112.4	129.7	144.8	134.0	125.3	101.6	99.4	101.6
70°	4213.8	1540.7	105.9	90.8	101.6	112.4	108.0	101.6	97.2	112.4	129.7
72.5°	1208.0	516.5	84.3	75.6	82.1	88.6	92.9	90.8	105.9	136.1	157.7
73°	929.2	417.1	80.0	71.3	77.8	86.4	90.8	88.6	108.0	138.3	157.7
75°	397.6	201.0	60.5	58.3	64.8	75.6	80.0	80.0	108.0	140.5	151.3
77.5°	179.4	108.0	38.9	45.4	56.2	60.5	67.0	67.0	86.4	108.0	108.0
80°	101.6	58.3	30.3	34.6	41.1	41.1	41.1	36.7	38.9	43.2	47.5
82.5°	64.8	38.9	23.8	28.1	25.9	21.6	17.3	17.3	15.1	17.3	21.6
85°	36.7	21.6	21.6	17.3	10.8	8.6	10.8	8.6	2.2	0.0	2.2
87.5°	21.6	13.0	6.5	0.0	0.0	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)