

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: P321261

Luminaire Tested: **GAN-SA7D-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321261  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA7D-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40343 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

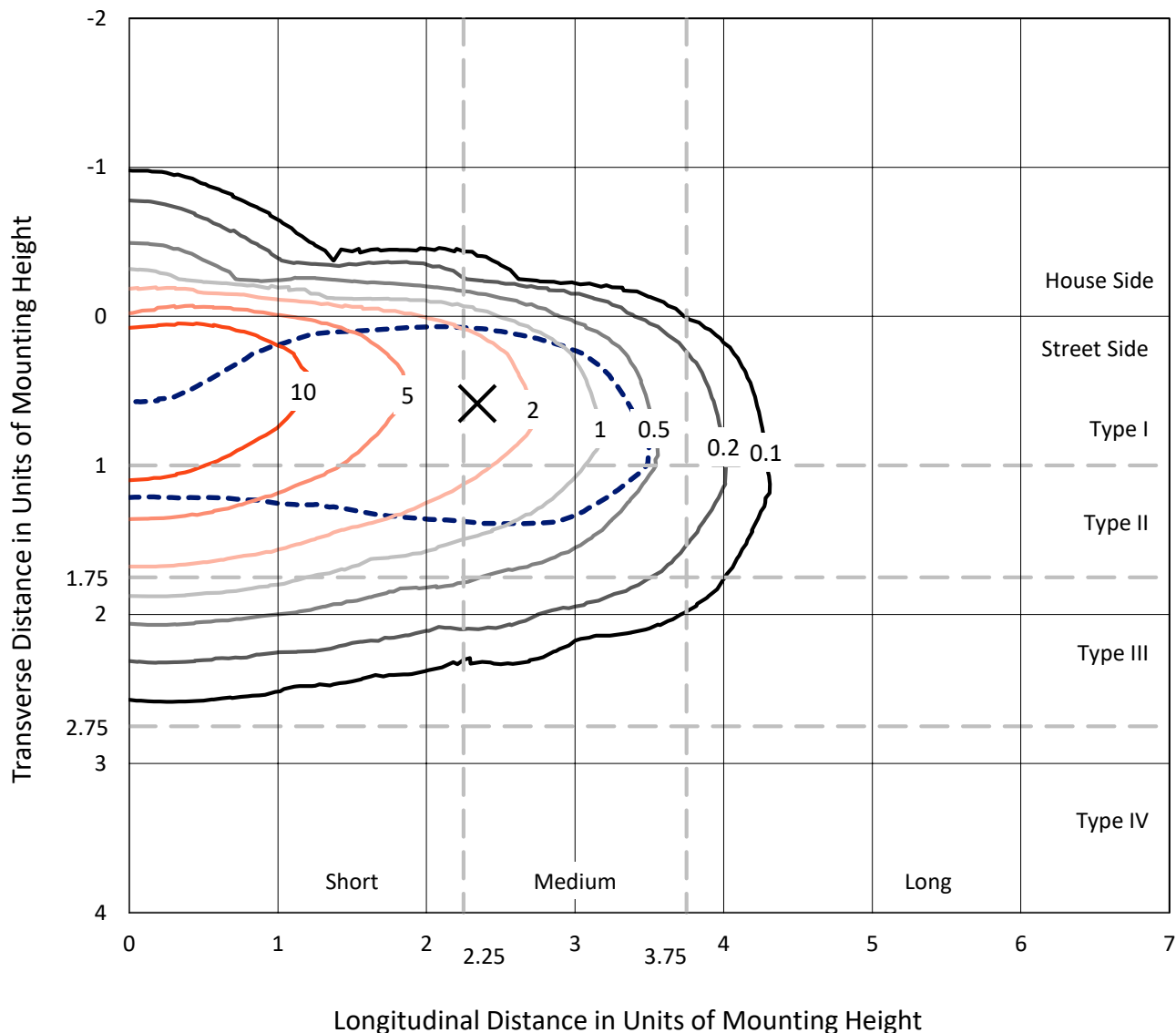
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

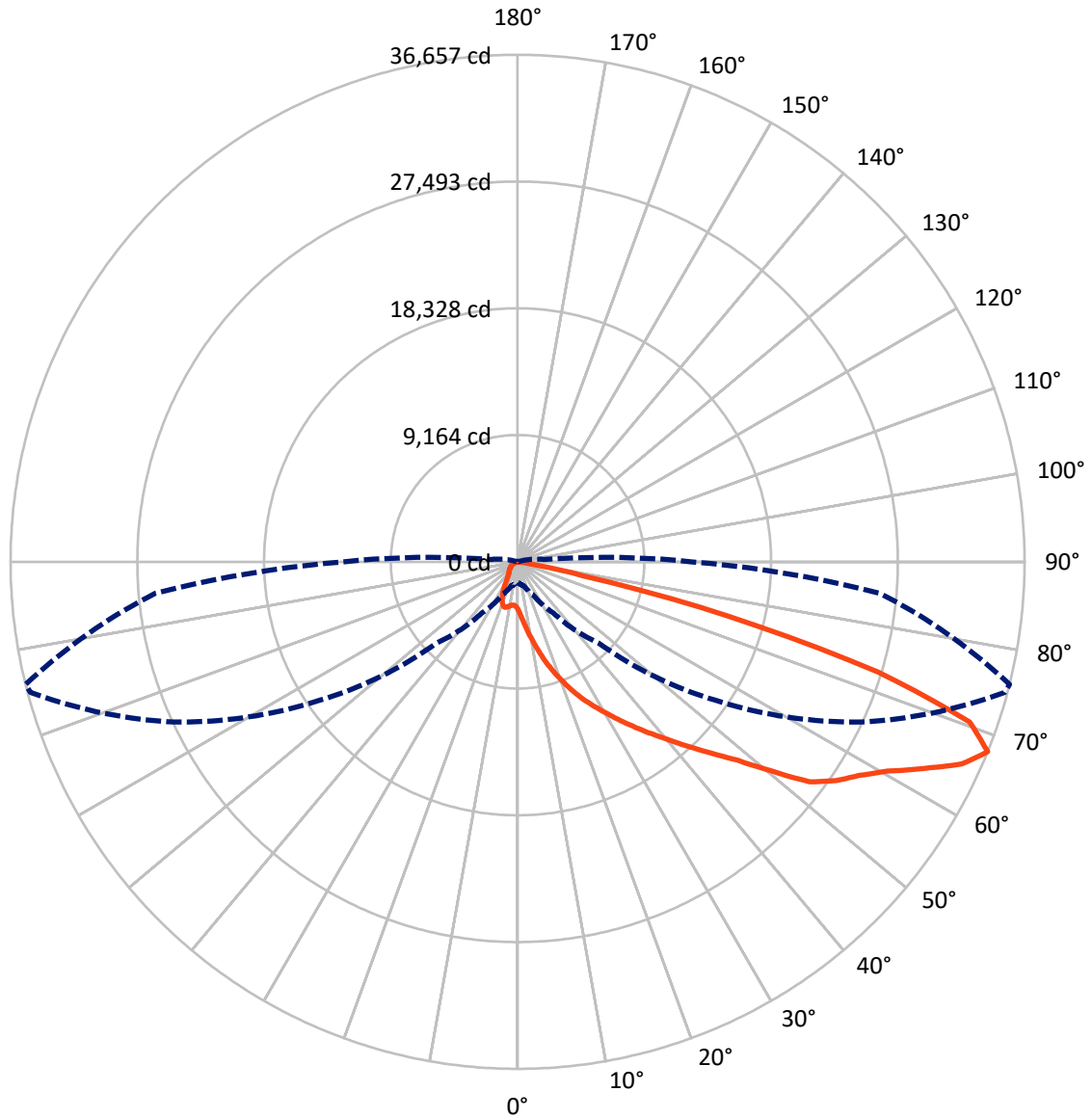
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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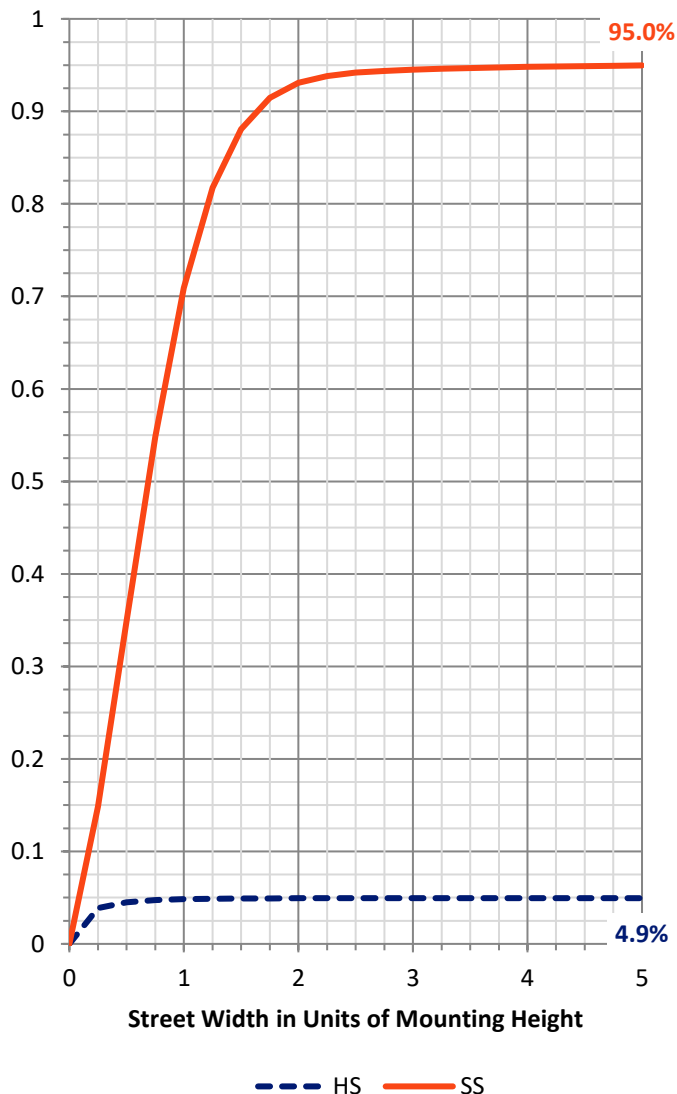
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2003.3	0.0	2003.3
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	38339.7	0.0	38339.7
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	40343.0	0.0	40343.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.6	1.1
10°-20°	1687.0	4.2
20°-30°	3432.4	8.5
30°-40°	5957.5	14.8
40°-50°	8417.2	20.9
50°-60°	9545.5	23.7
60°-70°	7917.1	19.6
70°-80°	2867.8	7.1
80°-90°	93.0	0.2
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°	40343.0	100.0
0°-180°	40343.0	100.0

**Coefficient of Utilization**

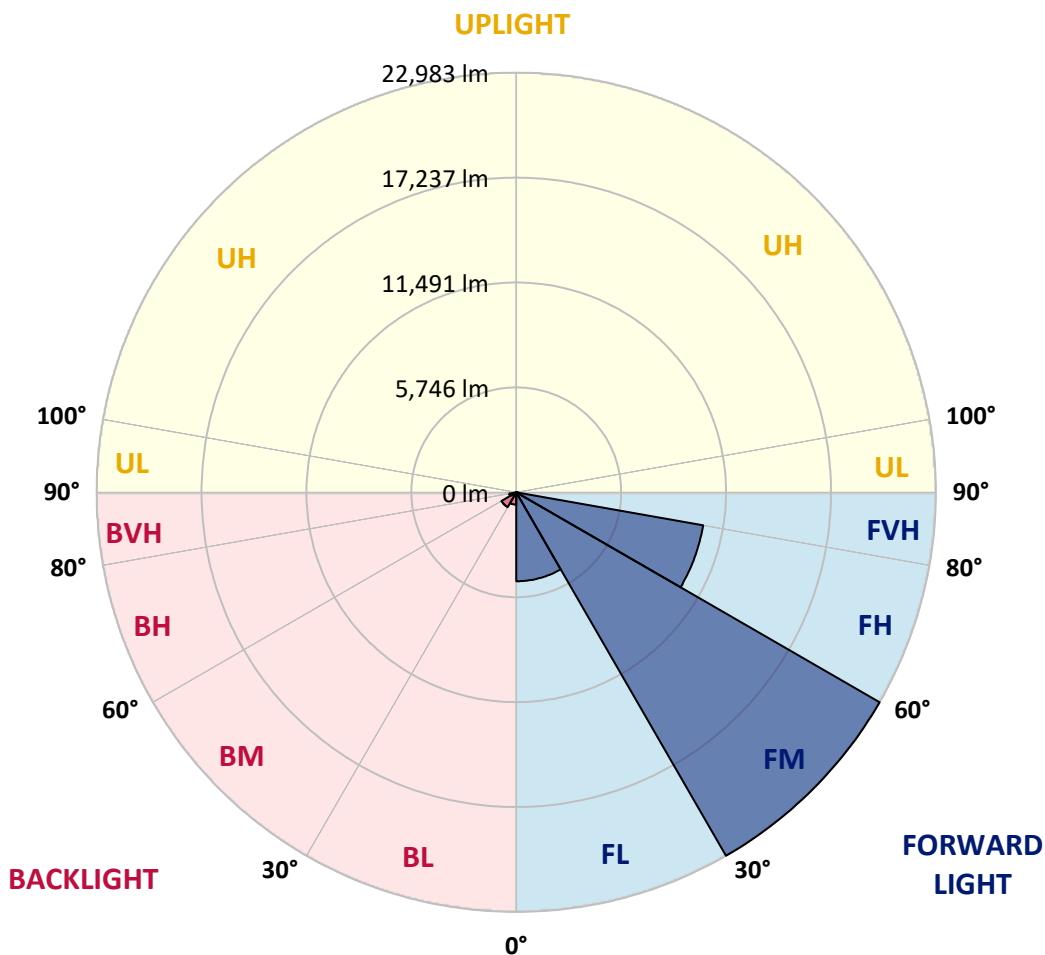


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4869.3	12.1			
FM (30°-60°)	22982.6	57.0			
FH (60°-80°)	10397.7	25.8			G4/12000
FVH (80°-90°)	90.1	0.2			G1/100
BL (0°-30°)	675.6	1.7	B2/1000		
BM (30°-60°)	937.6	2.3	B1/1000		
BH (60°-80°)	387.2	1.0	B1/500		G1/500
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3
2.5°	5108.6	4993.7	5020.2	4946.0	4811.7	4535.9	4300.8	4078.1	3818.2	3809.4	3595.5
5°	6888.7	6791.5	6779.1	6628.9	6384.9	5916.5	5460.4	4940.7	4360.9	4318.5	3864.2
7.5°	8504.4	8426.6	8398.3	8219.8	7765.5	7309.4	6715.5	5951.8	5045.0	4967.2	4226.6
10°	9745.3	9708.2	9715.2	9588.0	9199.1	8774.8	7995.3	7021.3	5821.0	5700.8	4661.4
12.5°	10685.7	10694.5	10758.2	10680.4	10463.0	10148.3	9315.7	8161.4	6680.1	6515.7	5158.1
15°	11376.9	11421.1	11537.7	11635.0	11619.1	11346.8	10583.2	9319.3	7592.2	7410.2	5711.4
17.5°	11824.1	11873.6	12043.3	12259.0	12456.9	12393.3	11806.4	10436.5	8515.0	8304.6	6303.6
20°	12216.5	12274.9	12456.9	12741.5	13111.0	13190.5	12805.2	11520.1	9435.9	9179.6	6915.2
22.5°	13066.8	13065.0	13176.4	13342.6	13694.3	13899.4	13655.4	12525.9	10346.3	10079.4	7539.2
25°	14604.7	14546.4	14507.5	14376.7	14454.4	14581.7	14445.6	13466.3	11262.0	10991.5	8172.0
27.5°	16432.5	16467.8	16153.2	15801.4	15529.2	15398.4	15175.6	14337.8	12142.3	11845.3	8790.7
30°	18361.0	18371.6	18000.4	17551.4	16952.2	16455.5	16070.1	15170.3	13047.3	12723.9	9391.8
32.5°	20100.4	20031.5	19663.8	19052.2	18295.6	17737.0	16936.3	16100.2	14005.4	13692.6	10059.9
35°	21479.2	21397.9	20950.7	20393.9	19609.0	19046.9	18083.5	17028.2	15013.0	14707.2	10729.9
37.5°	22486.8	22391.4	21931.8	21359.0	20682.0	20355.0	19414.6	18037.5	16112.5	15783.7	11435.2
40°	22836.8	22753.8	22465.6	22046.7	21502.2	21428.0	20827.0	19198.9	17309.3	16959.3	12234.2
42.5°	22628.2	22546.9	22444.4	22303.0	22076.7	22147.4	22159.8	20522.9	18638.6	18293.9	13116.3
45°	21801.0	21728.5	21834.6	22041.4	22322.4	22672.4	23376.0	21945.9	20123.4	19755.7	14136.2
47.5°	20583.0	20530.0	20823.4	21339.6	22161.6	23126.7	24487.9	23441.4	21790.4	21449.2	15409.0
50°	18850.7	18841.8	19428.7	20370.9	21634.8	23345.9	25636.9	25141.9	24106.0	23747.2	17178.4
52.5°	16153.2	16170.9	17325.2	18833.0	20710.3	23197.4	26375.8	27326.8	26800.0	26427.0	18711.0
55°	13584.7	13690.8	14509.2	16683.5	19292.6	22645.9	26630.3	28346.7	28286.6	27933.1	19563.1
57.5°	11069.3	11262.0	12050.4	14081.4	17222.6	21375.0	26490.7	28788.7	29393.2	29122.8	20687.3
60°	8343.5	8431.9	9340.5	11239.0	14565.8	19055.7	25477.8	29029.1	30906.4	30719.0	22318.9
62.5°	5308.4	5529.3	6335.4	8166.7	11341.5	15835.0	23770.2	29025.5	32799.6	32902.1	24424.2
65°	2796.5	3054.6	3482.4	5060.9	7793.8	12237.7	21201.7	28753.3	35122.3	35265.5	26069.9
67.5°	1507.8	1582.1	1808.4	2626.8	4520.0	8290.5	17427.7	27409.9	36467.5	36656.7	26299.7
70°	1103.0	1143.7	1228.5	1453.0	2275.0	4815.2	12716.8	24364.1	34733.4	34662.7	23367.1
72.5°	846.7	910.4	974.0	1064.2	1308.1	2570.2	7917.5	19078.7	27713.9	27247.2	17466.6
75°	668.2	678.8	768.9	850.3	981.1	1463.7	3515.9	11111.7	16915.1	15810.3	9057.7
77.5°	533.8	540.9	593.9	664.7	788.4	961.6	1088.9	4371.5	5400.3	4818.7	1965.7
80°	316.4	334.1	441.9	512.6	654.0	606.3	397.7	949.3	843.2	763.6	330.6
82.5°	176.8	190.9	249.2	404.8	456.1	289.9	198.0	256.3	198.0	192.7	93.7
85°	0.0	8.8	160.9	251.0	185.6	63.6	83.1	84.8	58.3	54.8	37.1
87.5°	0.0	0.0	49.5	47.7	7.1	10.6	19.4	28.3	23.0	23.0	19.4
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°	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3	3422.3
2.5°	3489.4	3394.0	3213.7	3036.9	2888.4	2766.4	2656.8	2612.7	2577.3	2572.0	2543.7
5°	3645.0	3452.3	3107.6	2824.8	2635.6	2501.3	2386.4	2315.7	2260.9	2239.7	2220.2
7.5°	3880.1	3588.4	3093.5	2768.2	2541.9	2315.7	2103.6	1873.8	1730.6	1675.8	1644.0
10°	4166.5	3768.7	3146.5	2752.3	2356.3	1879.1	1527.3	1235.6	1117.2	1078.3	1067.7
12.5°	4500.5	3993.2	3238.4	2653.3	1960.4	1334.6	1053.5	954.6	928.0	915.7	915.7
15°	4884.1	4238.9	3303.8	2366.9	1449.5	1009.4	912.1	866.2	837.9	822.0	823.7
17.5°	5276.6	4479.3	3272.0	1951.5	1069.5	898.0	825.5	776.0	737.1	721.2	717.7
20°	5672.5	4702.1	3095.2	1453.0	905.1	814.9	733.6	678.8	639.9	624.0	620.5
22.5°	6082.6	4891.2	2784.1	1065.9	813.1	723.0	643.4	588.6	551.5	537.4	530.3
25°	6482.1	5045.0	2349.3	862.6	726.5	636.4	560.4	509.1	475.5	461.4	459.6
27.5°	6855.1	5142.2	1845.5	761.9	650.5	558.6	489.7	443.7	415.4	404.8	403.0
30°	7191.0	5151.1	1364.7	687.6	583.3	491.4	427.8	387.1	362.4	351.8	348.2
32.5°	7530.4	5076.8	993.4	620.5	521.5	433.1	371.2	339.4	321.7	312.9	312.9
35°	7850.3	4905.3	774.2	562.1	461.4	376.5	327.0	304.0	293.4	284.6	284.6
37.5°	8163.2	4659.6	657.6	510.9	404.8	328.8	288.1	274.0	265.2	256.3	256.3
40°	8481.4	4350.3	597.5	463.1	358.8	291.7	256.3	243.9	235.1	228.0	226.3
42.5°	8872.1	3993.2	558.6	418.9	318.2	258.1	226.3	212.1	205.1	198.0	194.4
45°	9324.6	3685.6	526.8	374.8	284.6	229.8	196.2	182.1	171.5	162.6	160.9
47.5°	9976.9	3462.9	484.3	327.0	252.8	199.7	169.7	153.8	137.9	129.0	127.3
50°	10809.4	3279.1	429.5	284.6	221.0	169.7	141.4	122.0	107.8	99.0	99.0
52.5°	11223.1	3038.7	380.1	247.5	185.6	143.2	114.9	91.9	84.8	76.0	76.0
55°	11389.2	2854.8	330.6	210.4	153.8	118.4	90.2	70.7	65.4	60.1	58.3
57.5°	11855.9	2801.8	288.1	178.5	127.3	93.7	68.9	53.0	49.5	42.4	42.4
60°	12607.2	2828.3	249.2	152.0	102.5	72.5	51.3	40.7	37.1	30.1	30.1
62.5°	13418.6	2794.7	210.4	130.8	79.5	53.0	35.4	30.1	30.1	17.7	15.9
65°	13574.1	2488.9	180.3	107.8	61.9	38.9	23.0	19.4	26.5	3.5	0.0
67.5°	12598.4	1930.3	155.6	83.1	46.0	30.1	17.7	8.8	23.0	0.0	0.0
70°	10074.1	1226.8	125.5	60.1	35.4	24.7	14.1	3.5	17.7	0.0	0.0
72.5°	7123.8	712.4	99.0	42.4	30.1	19.4	10.6	0.0	10.6	0.0	0.0
75°	3602.6	380.1	61.9	31.8	23.0	14.1	7.1	0.0	1.8	0.0	0.0
77.5°	779.6	176.8	38.9	23.0	15.9	8.8	3.5	0.0	0.0	0.0	0.0
80°	169.7	77.8	24.7	14.1	8.8	5.3	0.0	0.0	0.0	0.0	0.0
82.5°	61.9	40.7	12.4	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.6	21.2	7.1	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.7	7.1	1.8	1.8	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)