

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: McGRAW-EDISON

Report Number: P383008

Luminaire Tested: **GLEON-SA3C-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383008
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: McGRAW-EDISON
Catalog Number: GLEON-SA3C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA 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: 16236.9 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

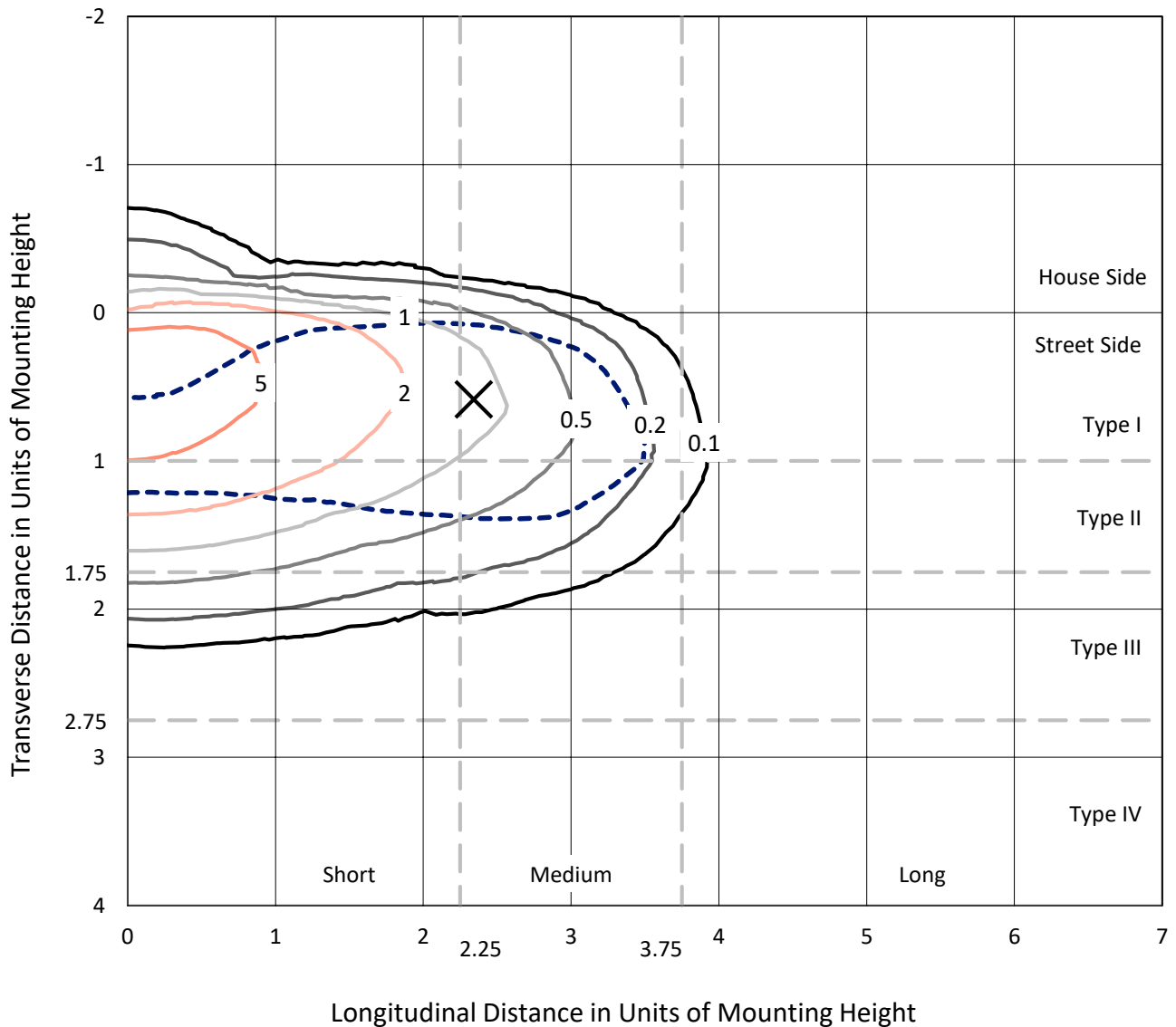
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

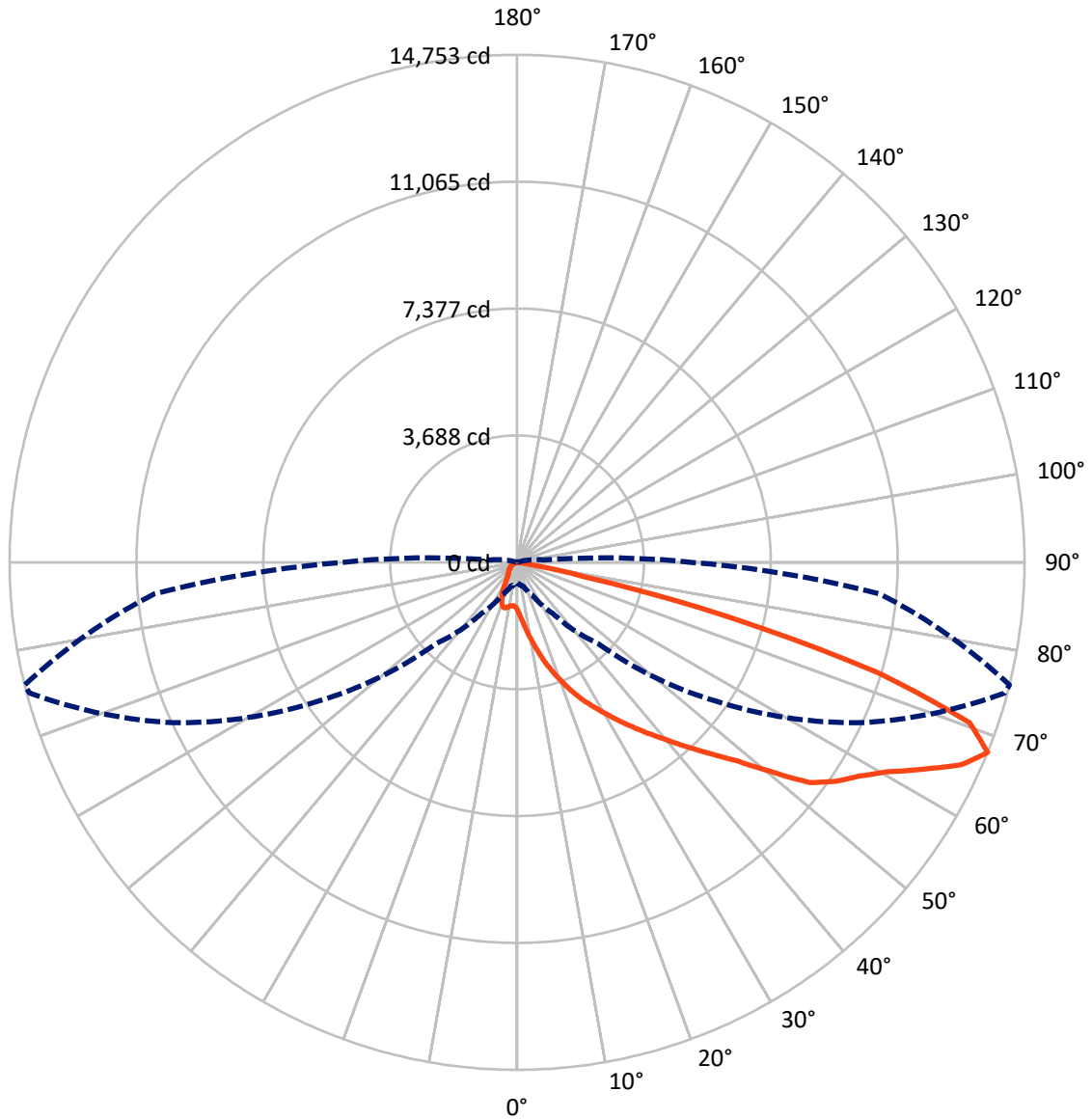
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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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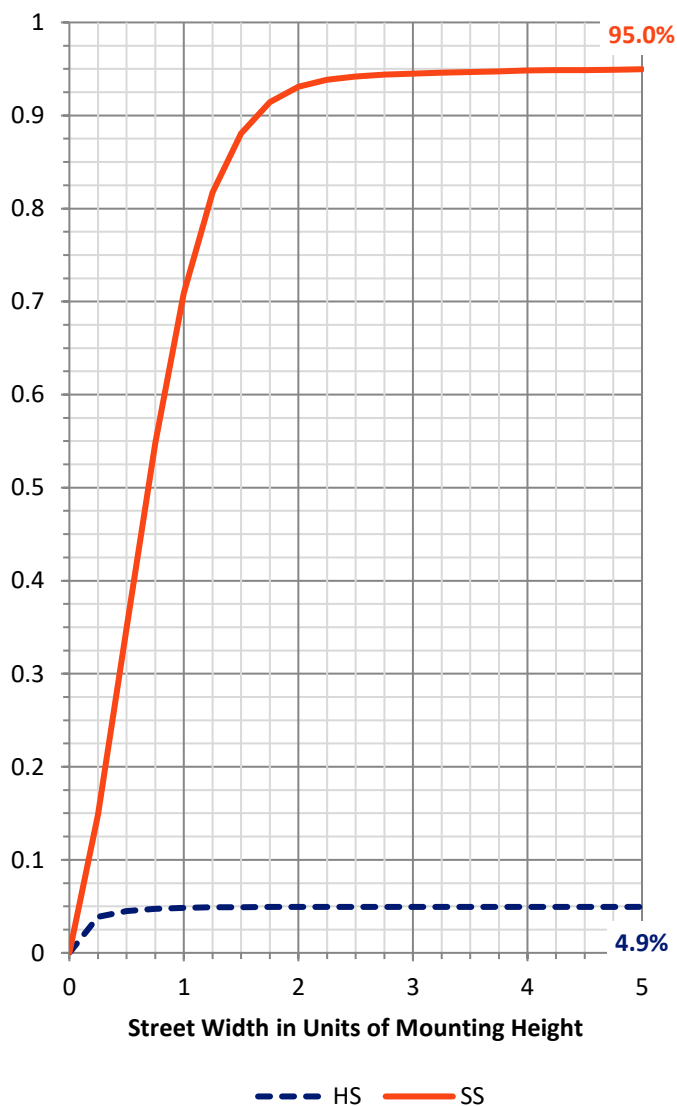
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	806.3	0.0	806.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	15430.6	0.0	15430.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	16236.9	0.0	16236.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.3	1.1
10°-20°	678.9	4.2
20°-30°	1381.4	8.5
30°-40°	2397.7	14.8
40°-50°	3387.7	20.9
50°-60°	3841.8	23.7
60°-70°	3186.4	19.6
70°-80°	1154.2	7.1
80°-90°	37.4	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°	16236.9	100.0
0°-180°	16236.9	100.0

Coefficient of Utilization



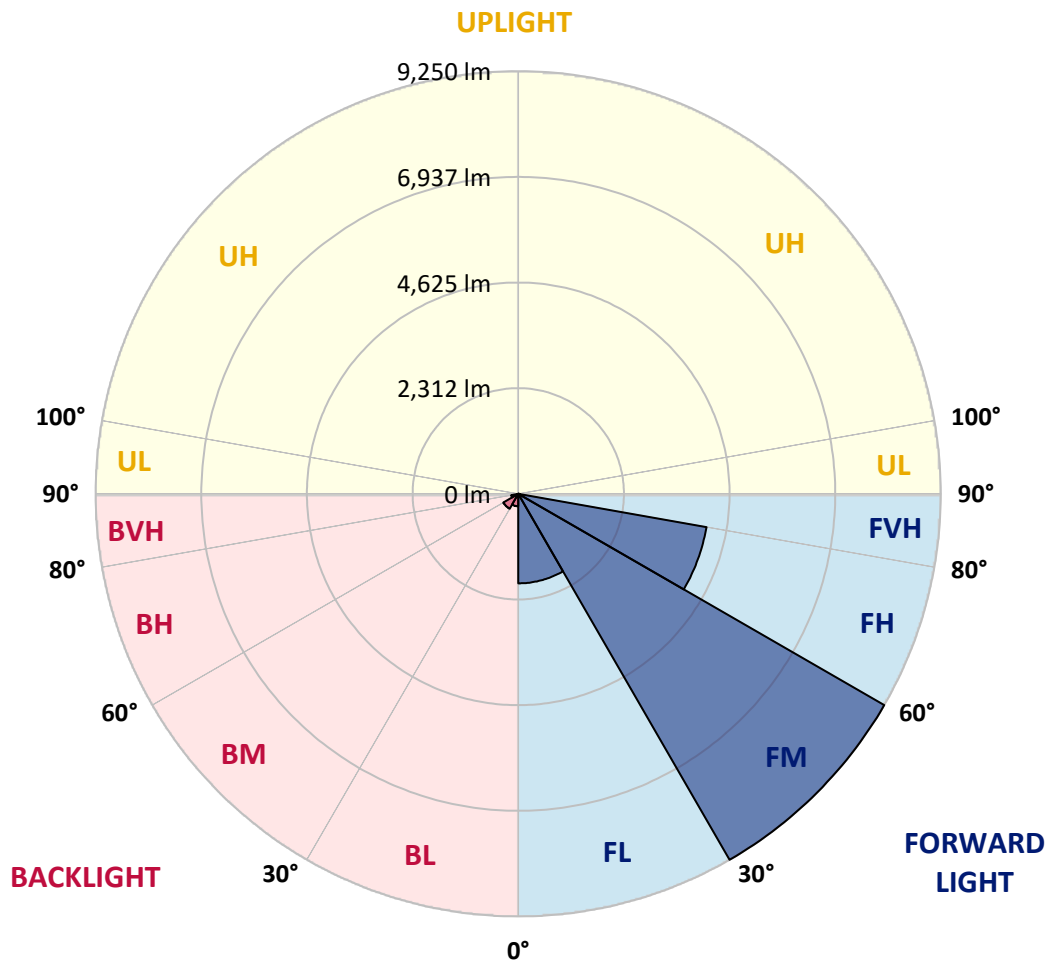
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1959.7	12.1			
FM (30°-60°)	9249.8	57.0			
FH (60°-80°)	4184.8	25.8			G2/5000
FVH (80°-90°)	36.2	0.2			G1/100
BL (0°-30°)	271.9	1.7	B1/500		
BM (30°-60°)	377.4	2.3	B1/1000		
BH (60°-80°)	155.8	1.0	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	2056.1	2009.8	2020.5	1990.6	1936.6	1825.6	1730.9	1641.3	1536.7	1533.1	1447.1
5°	2772.5	2733.3	2728.4	2668.0	2569.8	2381.2	2197.6	1988.5	1755.1	1738.1	1555.2
7.5°	3422.8	3391.5	3380.1	3308.2	3125.3	2941.8	2702.8	2395.5	2030.5	1999.2	1701.1
10°	3922.2	3907.3	3910.1	3858.8	3702.3	3531.6	3217.8	2825.8	2342.7	2294.4	1876.0
12.5°	4300.7	4304.2	4329.8	4298.5	4211.1	4084.4	3749.3	3284.7	2688.5	2622.4	2076.0
15°	4578.8	4596.6	4643.6	4682.7	4676.4	4566.7	4259.4	3750.8	3055.7	2982.3	2298.7
17.5°	4758.8	4778.7	4847.0	4933.8	5013.6	4988.0	4751.7	4200.3	3427.1	3342.4	2537.0
20°	4916.8	4940.3	5013.6	5128.1	5276.8	5308.8	5153.7	4636.5	3797.7	3694.5	2783.2
22.5°	5259.0	5258.3	5303.1	5370.0	5511.6	5594.1	5495.9	5041.3	4164.1	4056.7	3034.3
25°	5878.0	5854.5	5838.8	5786.2	5817.5	5868.7	5813.9	5419.7	4532.6	4423.7	3289.0
27.5°	6613.6	6627.8	6501.2	6359.6	6250.0	6197.4	6107.8	5770.6	4886.9	4767.4	3538.0
30°	7389.8	7394.1	7244.6	7063.9	6822.7	6622.8	6467.7	6105.6	5251.1	5121.0	3779.9
32.5°	8089.8	8062.1	7914.1	7667.9	7363.4	7138.6	6816.3	6479.8	5636.8	5510.8	4048.9
35°	8644.8	8612.1	8432.1	8208.0	7892.1	7665.8	7278.1	6853.3	6042.3	5919.2	4318.5
37.5°	9050.3	9011.9	8826.9	8596.4	8323.9	8192.3	7813.8	7259.6	6484.8	6352.5	4602.3
40°	9191.1	9157.7	9041.8	8873.2	8654.0	8624.2	8382.3	7727.0	6966.5	6825.6	4923.9
42.5°	9107.2	9074.5	9033.2	8976.3	8885.2	8913.7	8918.6	8259.8	7501.5	7362.8	5278.9
45°	8774.2	8745.1	8787.8	8871.0	8984.1	9125.0	9408.2	8832.6	8099.1	7951.1	5689.4
47.5°	8284.1	8262.7	8380.9	8588.6	8919.4	9307.8	9855.7	9434.4	8770.0	8632.7	6201.7
50°	7586.8	7583.3	7819.5	8198.7	8707.4	9396.1	10318.1	10118.8	9702.0	9557.6	6913.9
52.5°	6501.2	6508.3	6972.9	7579.7	8335.3	9336.2	10615.5	10998.2	10786.2	10636.1	7530.6
55°	5467.4	5510.1	5839.5	6714.6	7764.7	9114.4	10717.9	11408.8	11384.5	11242.3	7873.5
57.5°	4455.0	4532.6	4849.9	5667.3	6931.6	8602.7	10661.7	11586.6	11829.9	11721.0	8326.1
60°	3358.0	3393.6	3759.3	4523.4	5862.3	7669.3	10254.0	11683.4	12438.9	12363.5	8982.7
62.5°	2136.5	2225.4	2549.8	3286.9	4564.7	6373.1	9566.8	11681.9	13200.9	13242.1	9830.1
65°	1125.5	1229.4	1401.5	2036.8	3136.8	4925.4	8533.1	11572.3	14135.7	14193.3	10492.4
67.5°	606.9	636.7	727.8	1057.2	1819.1	3336.7	7014.2	11031.7	14677.1	14753.2	10584.9
70°	444.0	460.3	494.5	584.8	915.6	1938.0	5118.1	9805.8	13979.2	13950.8	9404.6
72.5°	340.8	366.4	392.0	428.3	526.5	1034.5	3186.5	7678.7	11154.1	10966.2	7029.8
75°	268.9	273.2	309.5	342.3	394.9	589.1	1415.0	4472.2	6807.8	6363.1	3645.4
77.5°	214.8	217.7	239.0	267.5	317.3	387.1	438.3	1759.4	2173.5	1939.4	791.2
80°	127.3	134.4	177.8	206.3	263.3	244.1	160.0	382.0	339.4	307.3	133.0
82.5°	71.2	76.9	100.3	162.9	183.5	116.7	79.6	103.1	79.6	77.5	37.7
85°	0.0	3.5	64.7	101.0	74.7	25.6	33.4	34.2	23.5	22.1	14.9
87.5°	0.0	0.0	19.9	19.2	2.9	4.3	7.8	11.4	9.2	9.2	7.8
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°	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4	1377.4
2.5°	1404.4	1365.9	1293.4	1222.3	1162.5	1113.4	1069.3	1051.5	1037.3	1035.1	1023.8
5°	1467.0	1389.5	1250.7	1136.9	1060.8	1006.7	960.4	932.0	909.9	901.4	893.5
7.5°	1561.6	1444.3	1245.0	1114.1	1023.0	932.0	846.6	754.1	696.5	674.4	661.7
10°	1676.9	1516.8	1266.3	1107.7	948.3	756.2	614.7	497.3	449.7	434.0	429.7
12.5°	1811.3	1607.2	1303.3	1067.8	789.0	537.1	424.0	384.2	373.6	368.5	368.5
15°	1965.8	1706.0	1329.7	952.6	583.4	406.2	367.1	348.6	337.2	330.8	331.5
17.5°	2123.6	1802.8	1316.9	785.5	430.5	361.4	332.3	312.3	296.7	290.3	288.9
20°	2283.0	1892.4	1245.8	584.8	364.2	328.0	295.2	273.2	257.6	251.1	249.7
22.5°	2448.1	1968.5	1120.6	429.0	327.3	291.0	259.0	236.9	222.0	216.3	213.4
25°	2608.9	2030.5	945.5	347.2	292.4	256.1	225.5	204.9	191.3	185.7	185.0
27.5°	2759.0	2069.6	742.7	306.7	261.9	224.8	197.1	178.6	167.2	162.9	162.2
30°	2894.1	2073.2	549.2	276.8	234.7	197.8	172.1	155.8	145.9	141.6	140.2
32.5°	3030.8	2043.3	399.8	249.7	209.9	174.3	149.4	136.6	129.5	125.9	125.9
35°	3159.5	1974.2	311.6	226.3	185.7	151.6	131.6	122.4	118.1	114.6	114.6
37.5°	3285.5	1875.4	264.7	205.6	162.9	132.4	116.0	110.3	106.8	103.1	103.1
40°	3413.5	1750.8	240.4	186.4	144.4	117.4	103.1	98.2	94.6	91.8	91.1
42.5°	3570.7	1607.2	224.8	168.6	128.1	103.9	91.1	85.3	82.5	79.6	78.2
45°	3752.8	1483.4	212.0	150.8	114.6	92.5	79.0	73.3	69.0	65.5	64.7
47.5°	4015.4	1393.7	195.0	131.6	101.7	80.4	68.3	61.9	55.5	52.0	51.2
50°	4350.5	1319.7	172.9	114.6	89.0	68.3	56.9	49.1	43.4	39.9	39.9
52.5°	4517.0	1222.9	153.0	99.6	74.7	57.7	46.2	37.0	34.2	30.6	30.6
55°	4583.9	1149.0	133.0	84.7	61.9	47.7	36.2	28.4	26.4	24.2	23.5
57.5°	4771.7	1127.6	116.0	71.8	51.2	37.7	27.8	21.3	19.9	17.0	17.0
60°	5074.0	1138.4	100.3	61.2	41.3	29.2	20.6	16.4	14.9	12.1	12.1
62.5°	5400.6	1124.8	84.7	52.6	32.0	21.3	14.3	12.1	12.1	7.1	6.4
65°	5463.2	1001.7	72.6	43.4	24.9	15.6	9.2	7.8	10.7	1.4	0.0
67.5°	5070.5	776.9	62.6	33.4	18.5	12.1	7.1	3.5	9.2	0.0	0.0
70°	4054.6	493.7	50.5	24.2	14.3	10.0	5.7	1.4	7.1	0.0	0.0
72.5°	2867.1	286.7	39.9	17.0	12.1	7.8	4.3	0.0	4.3	0.0	0.0
75°	1450.0	153.0	24.9	12.8	9.2	5.7	2.9	0.0	0.7	0.0	0.0
77.5°	313.7	71.2	15.6	9.2	6.4	3.5	1.4	0.0	0.0	0.0	0.0
80°	68.3	31.3	10.0	5.7	3.5	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	24.9	16.4	4.9	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.5	8.6	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	2.9	0.7	0.7	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)