

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: P382978

Luminaire Tested: **GLEON-SA3B-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11562.4 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

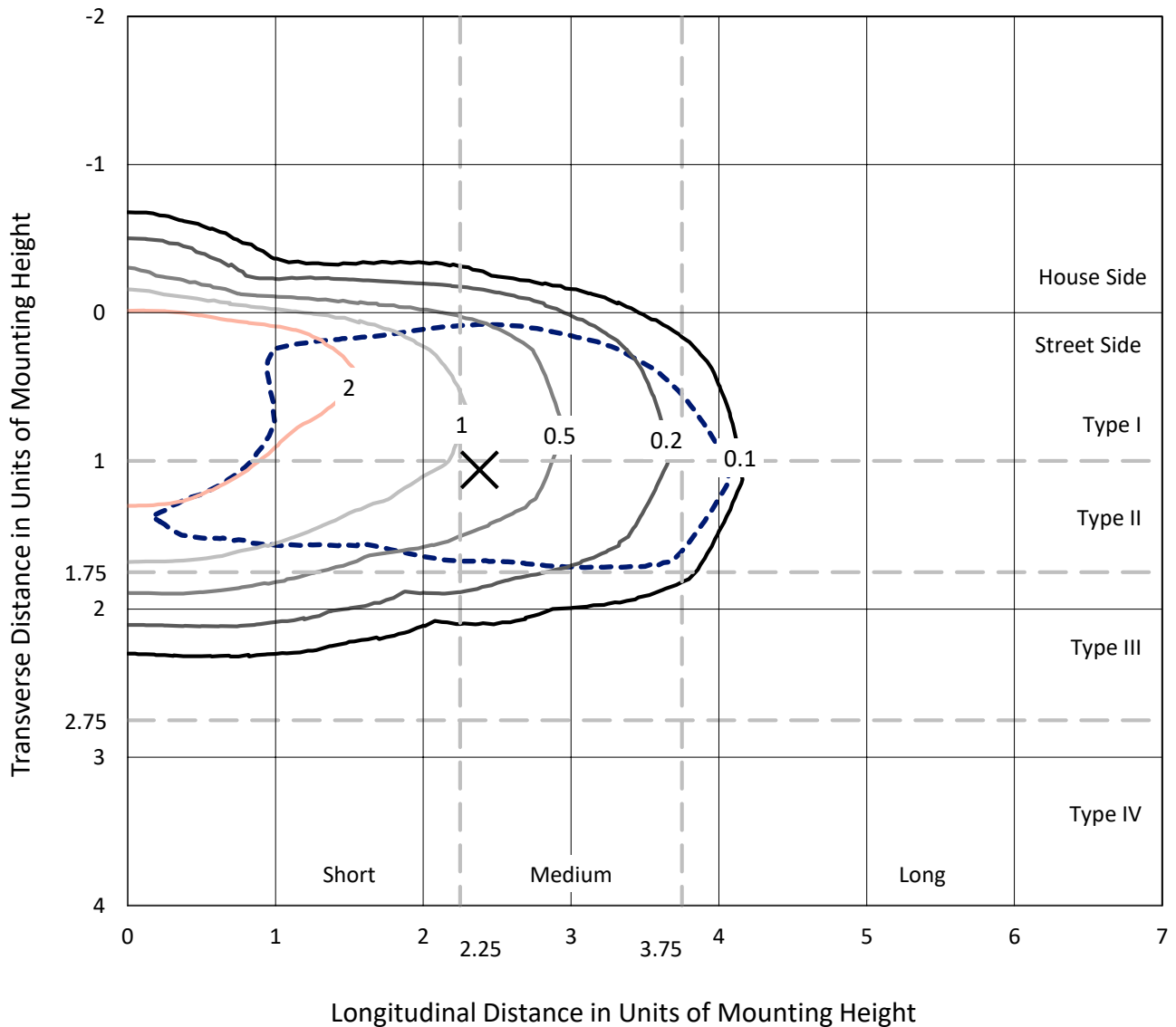
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

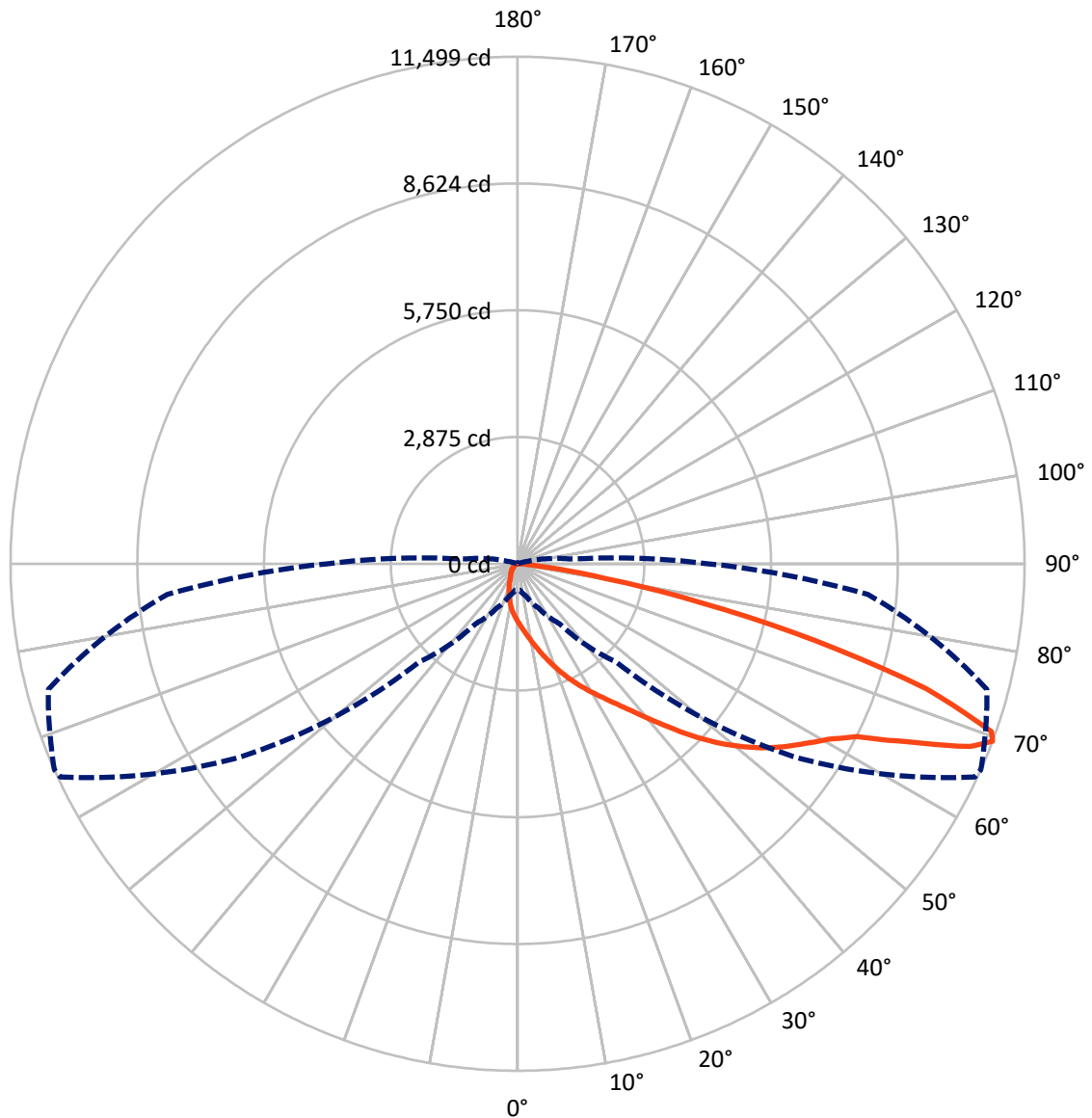
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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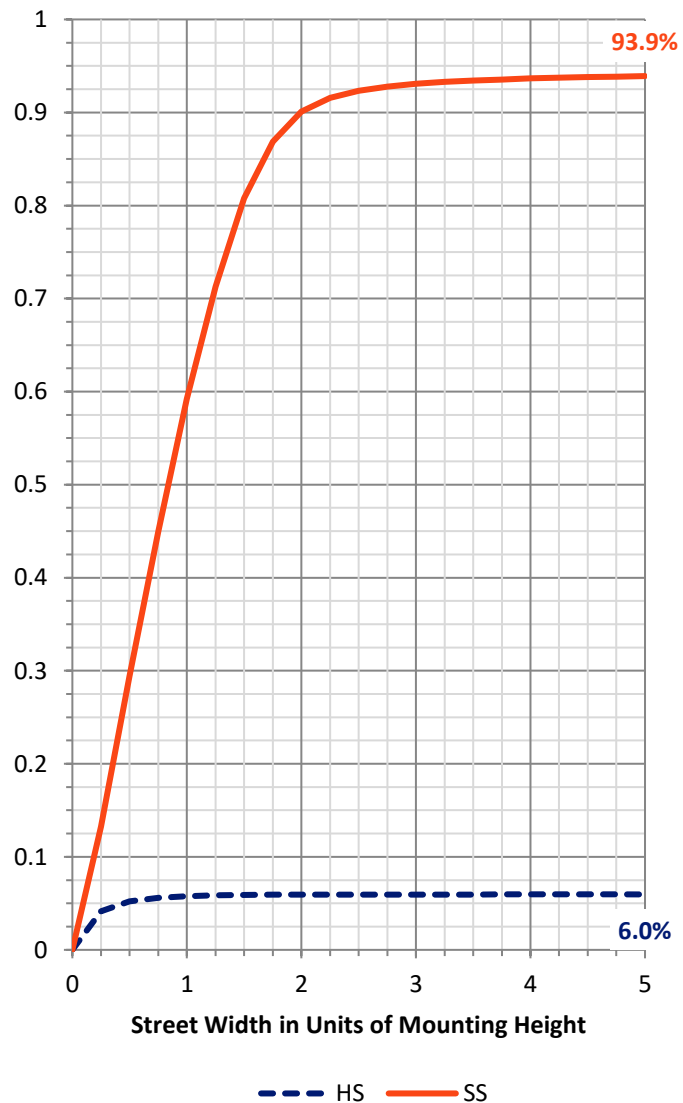
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	693.6	0.0	693.6
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	10868.8	0.0	10868.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	11562.4	0.0	11562.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	1.1
10°-20°	378.6	3.3
20°-30°	659.2	5.7
30°-40°	1156.6	10.0
40°-50°	1935.9	16.7
50°-60°	2845.6	24.6
60°-70°	2921.7	25.3
70°-80°	1442.4	12.5
80°-90°	95.4	0.8
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°	11562.4	100.0
0°-180°	11562.4	100.0

Coefficient of Utilization



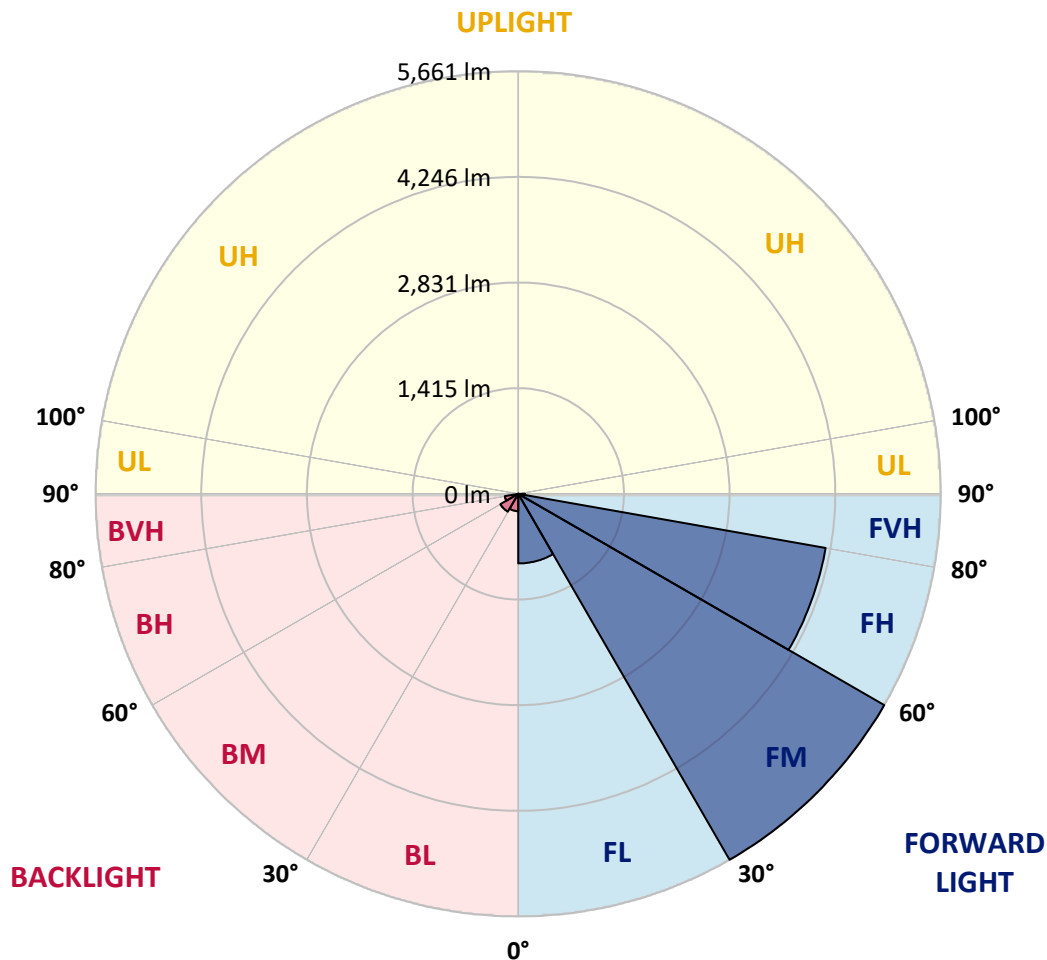
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	933.0	8.1			
FM (30°-60°)	5661.5	49.0			
FH (60°-80°)	4181.3	36.2			G2/5000
FVH (80°-90°)	93.1	0.8			G1/100
BL (0°-30°)	232.0	2.0	B1/500		
BM (30°-60°)	276.5	2.4	B1/1000		
BH (60°-80°)	182.8	1.6	B1/500		G1/500
BVH (80°-90°)	2.3	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°	66°	75°	85°
0°	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8
2.5°	1548.7	1542.1	1539.4	1527.3	1506.4	1490.5	1459.7	1424.1	1417.4	1382.8	1340.6
5°	1749.7	1744.2	1740.3	1723.4	1701.9	1661.8	1605.8	1539.4	1526.7	1460.9	1376.3
7.5°	1889.7	1899.6	1899.6	1888.6	1861.7	1831.5	1762.9	1672.2	1656.3	1555.3	1424.1
10°	1971.5	1983.6	1993.0	2002.3	1998.4	1986.3	1921.6	1819.4	1800.2	1666.2	1479.5
12.5°	1979.3	1991.4	2017.7	2056.7	2094.6	2122.1	2081.4	1982.5	1960.5	1794.7	1545.4
15°	1936.4	1949.1	1989.7	2065.4	2157.2	2237.4	2250.5	2163.2	2140.7	1948.0	1627.8
17.5°	1861.7	1870.0	1928.2	2033.1	2176.9	2324.1	2403.8	2357.1	2336.2	2123.1	1719.5
20°	1806.3	1812.3	1863.4	1975.9	2164.8	2378.5	2548.7	2563.1	2541.1	2311.0	1818.8
22.5°	1901.3	1912.3	1913.9	1967.1	2131.9	2405.4	2676.1	2765.7	2749.2	2510.3	1916.7
25°	2161.0	2173.7	2131.9	2099.0	2159.9	2417.5	2785.4	2973.2	2960.1	2725.1	2014.9
27.5°	2504.3	2517.4	2463.7	2365.3	2306.5	2463.1	2882.7	3184.1	3183.6	2952.4	2120.9
30°	2841.5	2854.6	2799.7	2701.4	2566.3	2592.1	2966.7	3404.9	3408.3	3186.9	2233.5
32.5°	3195.1	3211.6	3155.1	3028.7	2887.6	2815.1	3084.7	3626.8	3645.4	3458.7	2360.4
35°	3597.2	3599.3	3519.7	3387.4	3224.7	3113.3	3274.2	3875.5	3920.0	3795.4	2521.3
37.5°	3991.4	4007.3	3942.0	3733.4	3583.9	3457.6	3555.9	4186.4	4249.5	4206.7	2731.6
40°	4283.6	4317.1	4307.8	4082.6	3940.9	3850.8	3905.8	4556.0	4636.2	4685.6	2996.9
42.5°	4467.1	4492.3	4535.1	4399.5	4271.0	4285.8	4318.7	4986.6	5085.4	5231.5	3301.7
45°	4677.4	4689.4	4725.2	4665.3	4578.6	4727.9	4757.0	5471.4	5575.3	5818.5	3639.9
47.5°	4934.4	4962.9	4972.8	4917.9	4878.3	5118.9	5179.3	5912.4	6058.0	6447.3	3998.0
50°	5261.7	5269.4	5286.4	5250.7	5211.2	5455.0	5558.3	6375.4	6507.8	7078.4	4351.2
52.5°	5581.8	5609.3	5668.7	5646.1	5630.2	5741.1	5896.0	6792.8	6940.5	7604.5	4703.8
55°	5674.1	5697.7	5902.6	6042.7	6172.2	6093.7	6218.9	7166.8	7326.6	8074.6	5043.1
57.5°	5305.6	5353.4	5708.2	6072.9	6610.4	6641.7	6662.6	7550.7	7694.0	8434.9	5396.3
60°	4374.2	4383.6	4965.7	5591.2	6538.0	7120.1	7310.7	7963.1	8083.4	8770.4	5819.1
62.5°	2782.2	2877.2	3515.8	4399.0	5771.3	7050.9	8094.4	8587.0	8630.9	9172.9	6425.4
65°	1325.1	1386.7	1846.9	2717.9	4180.3	6165.1	8635.3	9715.6	9735.3	9970.9	7235.4
67.5°	733.7	763.4	982.5	1463.0	2443.8	4359.9	8416.7	11052.3	11070.9	10785.9	7946.1
69°	573.9	599.2	771.6	1102.8	1656.9	3133.6	7616.6	11443.8	11499.3	11019.3	7971.3
70°	487.1	511.8	664.5	931.5	1332.3	2421.4	6779.6	11346.6	11405.4	10997.3	7783.0
72.5°	298.2	312.4	442.7	655.7	893.0	1218.1	4180.9	9595.8	9695.2	10087.9	6689.0
75°	201.0	208.7	276.8	452.5	638.7	627.1	2172.0	6763.7	6979.0	7847.3	4940.5
77.5°	143.9	151.0	185.7	292.7	447.6	414.1	983.6	4203.4	4249.5	4706.5	2694.3
80°	81.8	88.4	131.3	174.1	303.7	276.2	391.0	2007.8	2030.9	2018.2	899.6
82.5°	42.9	48.3	71.9	114.8	195.0	180.7	162.6	672.2	675.5	561.8	197.1
85°	8.2	9.9	35.7	78.5	100.5	78.5	66.4	157.6	160.9	142.2	48.9
87.5°	0.0	0.6	14.3	17.6	19.7	20.3	21.4	30.7	33.0	44.5	13.1
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°	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8	1315.8
2.5°	1321.9	1302.1	1264.2	1220.2	1186.2	1152.7	1126.3	1098.9	1089.0	1084.0	1083.6
5°	1335.1	1293.4	1213.2	1130.8	1063.2	999.6	953.9	910.5	890.2	880.9	877.1
7.5°	1357.0	1290.0	1161.0	1035.2	938.0	858.3	795.2	747.9	724.4	714.5	710.7
10°	1382.8	1285.6	1100.0	934.2	810.1	727.6	665.0	618.4	592.6	581.6	576.1
12.5°	1413.1	1277.9	1029.7	832.0	700.7	618.4	542.6	485.0	455.2	442.7	436.6
15°	1450.4	1270.3	956.1	735.9	604.7	504.2	421.2	382.2	376.2	374.0	374.6
17.5°	1487.2	1258.1	875.9	640.9	503.6	393.8	351.5	349.2	350.4	350.4	350.4
20°	1520.1	1230.7	788.6	559.6	407.5	332.3	323.4	319.6	316.9	314.7	312.0
22.5°	1545.9	1193.9	704.6	478.9	332.8	304.2	290.5	278.4	268.6	262.0	258.7
25°	1563.5	1145.1	627.7	401.4	299.3	276.8	252.1	231.8	216.4	207.1	203.2
27.5°	1576.7	1092.3	559.0	336.1	276.2	244.9	212.5	188.4	172.4	164.2	160.9
30°	1586.1	1032.4	498.7	295.5	250.4	211.5	176.8	153.2	141.7	137.3	135.1
32.5°	1594.8	966.0	441.6	276.2	226.3	180.7	148.3	130.1	123.1	117.6	115.9
35°	1616.8	904.5	387.2	255.9	201.6	154.4	127.4	114.2	107.1	103.8	102.7
37.5°	1669.0	858.9	335.0	235.0	176.8	133.5	111.5	102.2	95.6	92.2	91.2
40°	1753.0	835.9	291.1	212.5	152.7	117.6	101.1	92.2	85.1	80.2	79.1
42.5°	1876.5	839.1	260.3	190.0	133.5	104.9	91.2	80.8	73.0	68.7	67.5
45°	2026.5	863.3	238.8	168.1	117.6	95.0	80.2	69.2	62.0	58.2	57.1
47.5°	2189.0	902.3	221.3	148.3	104.9	85.7	69.2	57.7	51.6	48.3	47.8
50°	2360.4	940.2	203.2	129.0	93.9	76.3	58.2	47.8	42.9	40.1	39.0
52.5°	2533.9	984.1	186.7	111.5	84.6	65.4	48.3	39.0	35.1	33.0	31.9
55°	2720.7	1017.1	170.8	97.7	75.3	55.4	40.1	32.4	29.1	26.4	25.8
57.5°	2940.3	1068.1	154.4	84.6	64.3	46.1	33.0	25.8	23.1	20.3	19.7
60°	3236.8	1128.0	136.8	74.7	52.7	37.9	26.9	20.9	17.6	15.4	14.8
62.5°	3627.9	1194.4	114.8	65.4	42.9	30.7	21.4	16.5	12.7	9.9	9.9
65°	4123.8	1302.7	93.9	55.0	35.1	25.2	16.5	12.1	7.2	4.4	4.4
67.5°	4413.2	1321.3	75.8	45.0	28.6	21.4	13.7	8.2	2.2	0.6	0.0
69°	4320.4	1213.2	64.3	38.5	24.7	20.3	12.7	6.1	1.1	0.0	0.0
70°	4145.8	1109.4	56.5	34.1	22.5	19.2	12.1	4.4	1.1	0.0	0.0
72.5°	3425.8	789.8	42.9	25.2	16.5	17.0	11.0	2.7	1.1	0.0	0.0
75°	2495.4	480.0	30.7	17.6	10.4	12.7	7.7	1.1	0.6	0.0	0.0
77.5°	1388.3	226.3	19.2	9.9	6.6	7.7	3.8	0.0	0.0	0.0	0.0
80°	450.9	61.5	8.8	5.5	3.8	4.4	1.7	0.0	0.0	0.0	0.0
82.5°	83.5	17.6	4.9	2.7	1.1	1.1	0.0	0.0	0.0	0.0	0.0
85°	18.2	7.2	2.7	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.2	0.6	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)