

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: P382870

Luminaire Tested: **GLEON-SA2B-735-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382870
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2B-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7938.6 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

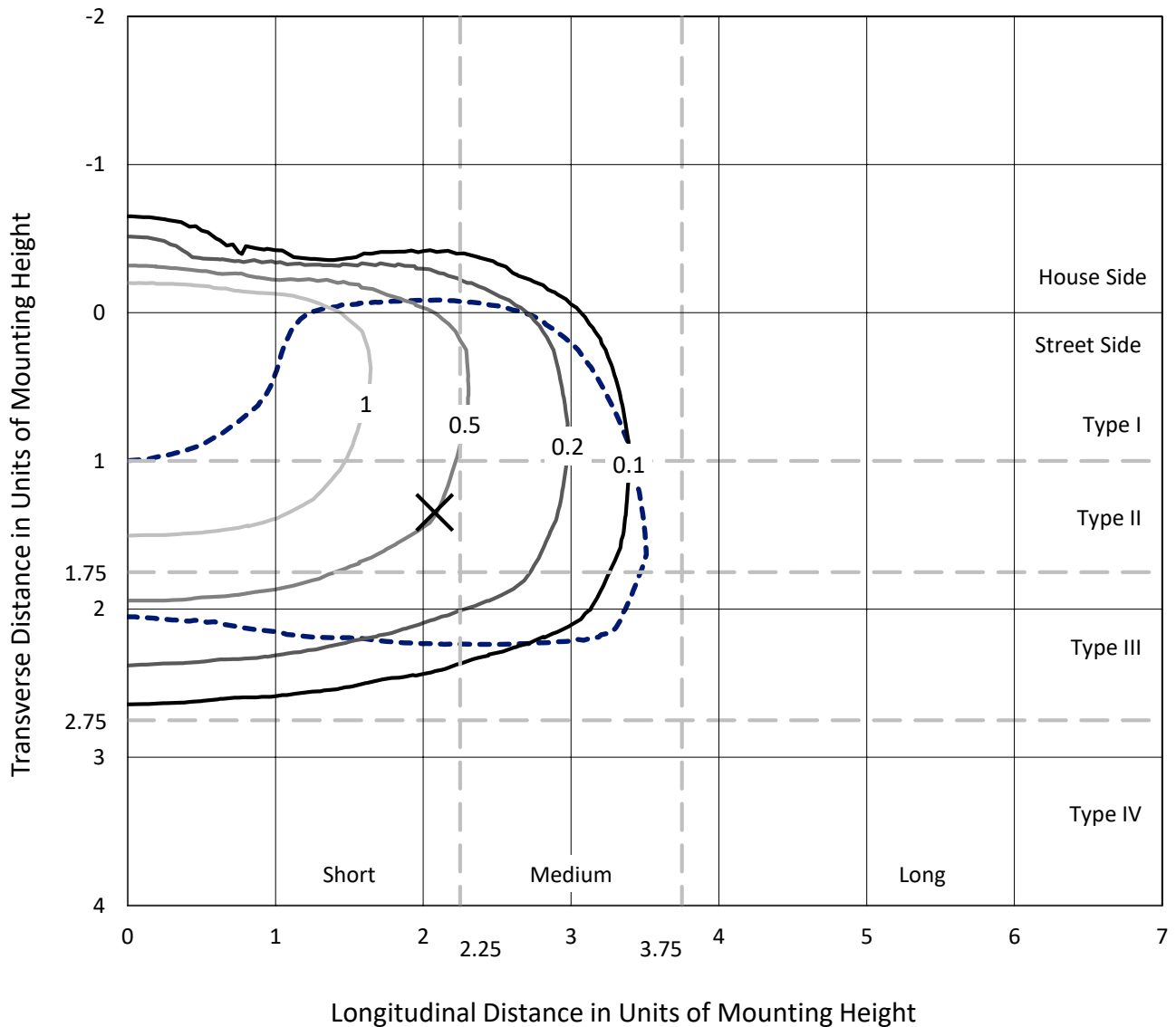
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382870
 CATALOG NUMBER: GLEON-SA2B-735-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

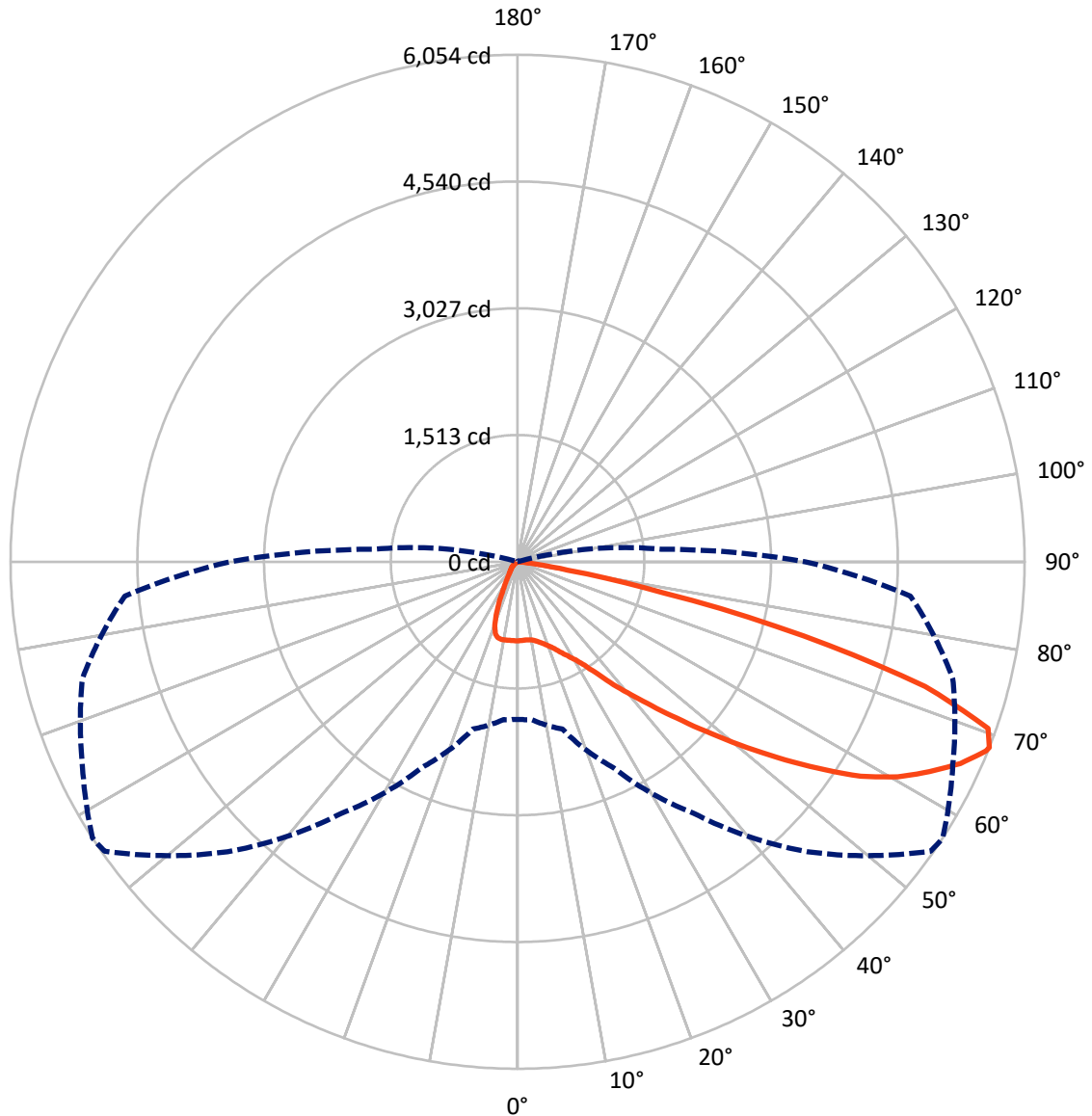
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Short - N/A

REPORT NUMBER: P382870
CATALOG NUMBER: GLEON-SA2B-735-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

REPORT NUMBER: P382870
 CATALOG NUMBER: GLEON-SA2B-735-U-T3-HSS

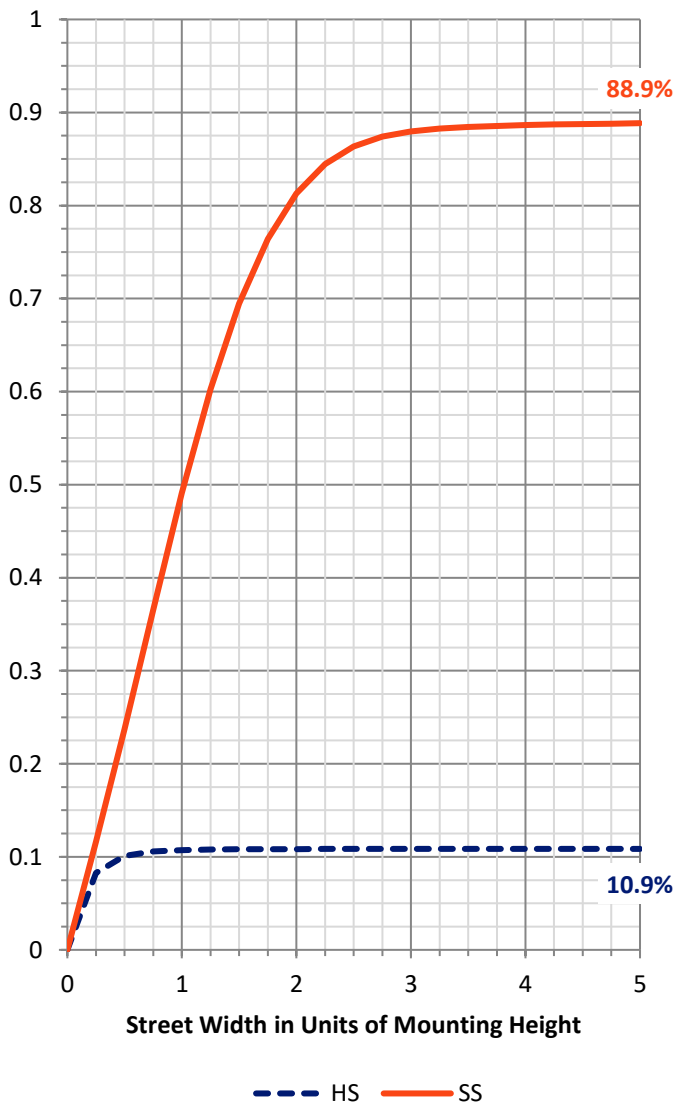
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	870.5	0.0	870.5
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	7068.1	0.0	7068.1
	% Fixture	89.0	0.0	89.0
Total	Lumens	7938.6	0.0	7938.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	1.1
10°-20°	244.6	3.1
20°-30°	422.0	5.3
30°-40°	728.4	9.2
40°-50°	1245.9	15.7
50°-60°	1993.3	25.1
60°-70°	2303.1	29.0
70°-80°	880.0	11.1
80°-90°	33.0	0.4
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°	7938.6	100.0
0°-180°	7938.6	100.0

Coefficient of Utilization



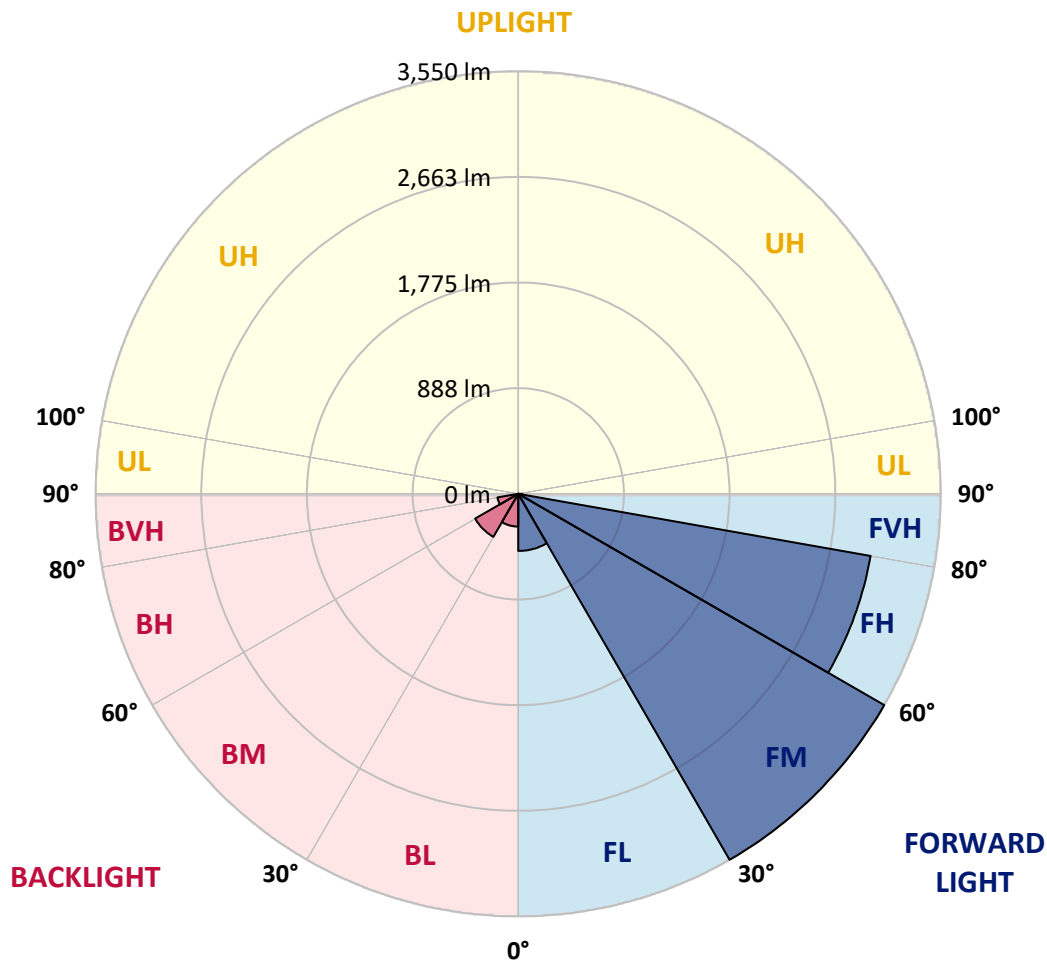
REPORT NUMBER: P382870
 CATALOG NUMBER: GLEON-SA2B-735-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.8	6.0			
FM (30°-60°)	3550.1	44.7			
FH (60°-80°)	3005.8	37.9			G2/5000
FVH (80°-90°)	32.4	0.4			G1/100
BL (0°-30°)	275.1	3.5	B1/500		
BM (30°-60°)	417.5	5.3	B1/1000		
BH (60°-80°)	177.3	2.2	B1/500		G1/500
BVH (80°-90°)	0.6	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 III Short





REPORT NUMBER: P382870

CATALOG NUMBER: GLEON-SA2B-735-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3
2.5°	921.2	925.3	928.3	930.2	932.5	937.3	938.8	941.0	942.2	942.2	944.9
5°	884.8	889.3	895.7	900.9	911.4	924.9	934.7	938.4	945.2	951.2	954.6
7.5°	851.0	856.3	863.7	876.1	894.2	915.9	936.2	941.4	954.6	967.3	973.7
10°	829.2	833.4	843.1	860.7	884.4	914.8	943.3	949.7	972.3	993.6	1005.6
12.5°	821.7	825.4	835.6	855.4	884.8	920.5	959.9	969.2	1002.3	1033.4	1050.3
15°	832.6	833.4	844.3	863.0	891.9	934.3	987.3	998.5	1040.2	1080.7	1101.7
17.5°	874.6	871.3	876.9	885.2	908.1	952.7	1016.1	1033.0	1088.6	1136.3	1156.1
20°	979.7	979.7	966.9	944.4	944.9	981.2	1055.2	1074.4	1142.3	1197.4	1215.5
22.5°	1159.5	1156.1	1130.6	1075.5	1024.8	1030.4	1102.9	1127.6	1206.8	1265.8	1271.7
25°	1375.7	1371.6	1332.2	1254.5	1166.7	1110.0	1167.4	1195.9	1283.8	1335.9	1323.5
27.5°	1604.8	1601.3	1562.3	1465.9	1340.9	1236.9	1244.4	1271.4	1362.2	1413.6	1374.2
30°	1826.6	1827.7	1789.0	1689.9	1548.4	1398.6	1342.0	1357.7	1438.4	1490.7	1434.3
32.5°	2037.6	2039.1	2005.6	1894.9	1762.8	1586.7	1477.1	1473.0	1527.0	1578.4	1513.9
35°	2225.6	2229.4	2206.5	2120.5	1980.5	1796.2	1652.4	1642.7	1652.8	1711.0	1635.9
37.5°	2406.9	2409.2	2391.9	2319.5	2202.4	2026.3	1873.9	1860.0	1838.2	1882.8	1797.0
40°	2605.4	2599.9	2579.9	2514.2	2413.6	2280.4	2111.9	2087.9	2050.0	2089.7	2008.6
42.5°	2790.2	2783.8	2787.2	2712.9	2628.0	2541.6	2389.2	2348.0	2325.8	2371.6	2268.4
45°	3021.0	3017.7	3028.9	2964.4	2895.6	2832.9	2707.2	2662.2	2652.4	2706.1	2582.6
47.5°	3248.9	3257.2	3292.1	3264.6	3236.8	3181.7	3043.9	3023.6	3029.7	3094.6	2914.1
50°	3438.8	3448.6	3544.3	3575.8	3616.0	3583.8	3445.6	3433.2	3456.9	3515.4	3270.7
52.5°	3576.2	3596.1	3715.1	3860.3	4006.8	4028.6	3890.8	3879.5	3911.4	3920.4	3546.2
55°	3671.6	3689.2	3824.0	4089.7	4387.8	4481.6	4396.1	4352.5	4346.5	4257.5	3835.9
57.5°	3688.5	3686.6	3880.3	4238.0	4686.6	4928.7	4874.6	4831.8	4708.7	4569.1	4168.2
60°	3593.1	3604.0	3828.8	4289.4	4874.2	5266.9	5271.1	5215.5	5023.6	4872.0	4490.2
62.5°	3299.5	3343.9	3571.0	4154.7	4872.0	5403.2	5561.6	5519.1	5289.8	5120.2	4816.8
65°	2823.6	2839.4	3055.9	3692.9	4542.8	5346.2	5823.2	5807.5	5529.7	5361.1	4984.6
67.5°	2062.0	2027.8	2255.3	2908.0	3846.1	5013.5	6010.9	6030.8	5714.8	5410.7	4805.9
68°	1881.7	1891.9	2069.1	2714.0	3663.7	4896.0	6023.3	6053.7	5733.1	5378.4	4708.3
70°	1121.6	1141.1	1299.1	1868.6	2787.2	4231.3	5889.6	5959.1	5623.5	5045.4	4072.4
72.5°	286.5	309.6	459.1	836.3	1592.0	2981.2	4971.9	5089.3	4882.5	4093.1	2749.3
75°	117.8	123.9	164.0	275.6	593.1	1343.1	3277.0	3528.5	3384.8	2450.4	1242.5
77.5°	81.4	85.6	105.5	152.8	256.7	455.3	1606.6	1788.3	1611.1	836.3	271.0
80°	58.6	61.9	75.5	101.7	147.6	162.6	523.6	605.5	480.9	183.5	67.2
82.5°	34.9	37.5	56.3	72.5	89.7	77.7	130.2	147.9	139.3	91.2	30.0
85°	17.2	20.3	37.9	51.8	48.4	32.7	39.8	44.2	54.8	55.5	16.1
87.5°	1.1	2.2	22.2	31.1	13.5	7.5	11.6	14.3	19.6	27.4	6.8
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: P382870

CATALOG NUMBER: GLEON-SA2B-735-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3	943.3
2.5°	946.0	946.4	943.7	942.5	943.3	938.8	937.0	937.7	937.7	938.8	937.0
5°	955.3	955.3	950.8	944.9	941.4	932.9	927.2	925.7	924.6	923.8	922.3
7.5°	975.6	973.4	965.5	952.3	941.0	922.3	908.1	900.5	896.8	895.3	894.2
10°	1008.3	1004.1	991.0	966.6	940.7	907.3	876.1	853.9	835.6	828.1	823.6
12.5°	1052.2	1046.1	1024.1	983.5	938.1	876.5	809.0	744.0	683.6	658.8	646.4
15°	1102.9	1094.2	1059.4	997.8	922.7	807.1	660.3	546.5	462.8	431.3	417.8
17.5°	1154.3	1143.0	1090.1	1006.7	876.5	663.3	463.3	349.9	293.9	278.9	273.7
20°	1206.1	1189.6	1116.7	1000.0	772.2	478.3	305.5	255.6	239.5	235.0	233.4
22.5°	1255.3	1229.7	1140.8	973.7	611.5	320.9	241.7	226.0	220.7	218.1	217.3
25°	1298.0	1262.4	1161.8	892.6	432.8	242.5	217.7	212.5	205.7	200.8	201.2
27.5°	1338.3	1295.0	1174.6	759.0	288.7	207.2	201.6	194.4	182.0	174.9	174.9
30°	1386.6	1338.6	1183.9	584.1	212.5	183.1	178.7	167.8	150.9	141.5	141.5
32.5°	1459.5	1404.7	1177.9	409.9	176.1	161.1	150.5	135.5	117.1	108.2	107.7
35°	1571.0	1506.8	1135.2	268.8	155.4	140.0	123.2	104.7	88.6	81.0	80.7
37.5°	1721.1	1643.4	1039.0	192.2	139.3	120.5	100.2	79.9	67.9	63.1	62.7
40°	1915.9	1802.2	901.6	155.8	124.3	101.7	77.3	61.9	53.7	49.9	50.3
42.5°	2149.8	1972.3	736.9	134.4	109.6	83.7	60.5	48.8	43.5	40.9	40.1
45°	2409.5	2140.0	564.1	119.7	94.9	67.5	47.3	38.7	34.6	33.1	33.1
47.5°	2695.2	2303.3	413.0	106.9	79.2	52.2	37.9	31.5	28.1	27.0	26.6
50°	2954.6	2416.7	297.6	93.4	64.9	41.3	30.7	26.3	24.0	22.5	22.5
52.5°	3170.8	2452.3	219.2	78.8	52.5	33.1	25.5	22.5	20.3	19.2	19.2
55°	3361.1	2437.7	162.9	64.9	42.4	27.0	21.8	19.2	17.2	16.1	16.1
57.5°	3543.5	2390.4	121.7	52.9	34.2	21.8	18.4	16.1	14.3	13.5	13.5
60°	3692.6	2311.5	90.5	42.8	27.4	17.6	15.4	13.1	11.6	10.5	10.5
62.5°	3813.5	2224.4	66.4	35.3	21.8	13.9	12.0	10.9	8.7	7.5	7.5
65°	3814.2	2080.0	49.9	29.3	16.9	10.9	9.0	8.7	5.6	4.5	4.1
67.5°	3538.3	1793.1	38.3	25.2	13.1	8.3	6.8	7.2	3.0	1.9	1.5
68°	3438.1	1720.4	36.1	24.8	12.4	7.9	6.4	7.2	2.6	1.5	1.1
70°	2898.7	1368.6	28.9	24.0	10.9	6.0	5.2	7.2	2.2	1.1	0.7
72.5°	1854.0	794.3	21.4	19.2	8.3	4.5	3.4	6.4	2.2	0.7	0.4
75°	789.0	246.2	14.6	13.5	4.8	3.4	2.2	4.1	1.5	0.4	0.0
77.5°	166.3	55.5	8.7	8.3	3.4	2.2	1.5	1.1	0.4	0.0	0.0
80°	42.8	16.1	4.5	4.1	1.9	1.1	0.7	0.0	0.0	0.0	0.0
82.5°	13.5	6.4	2.6	1.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.8	3.7	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	1.1	0.4	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)