

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: P382858

Luminaire Tested: **GLEON-SA2B-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382858
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
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-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9306.2 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

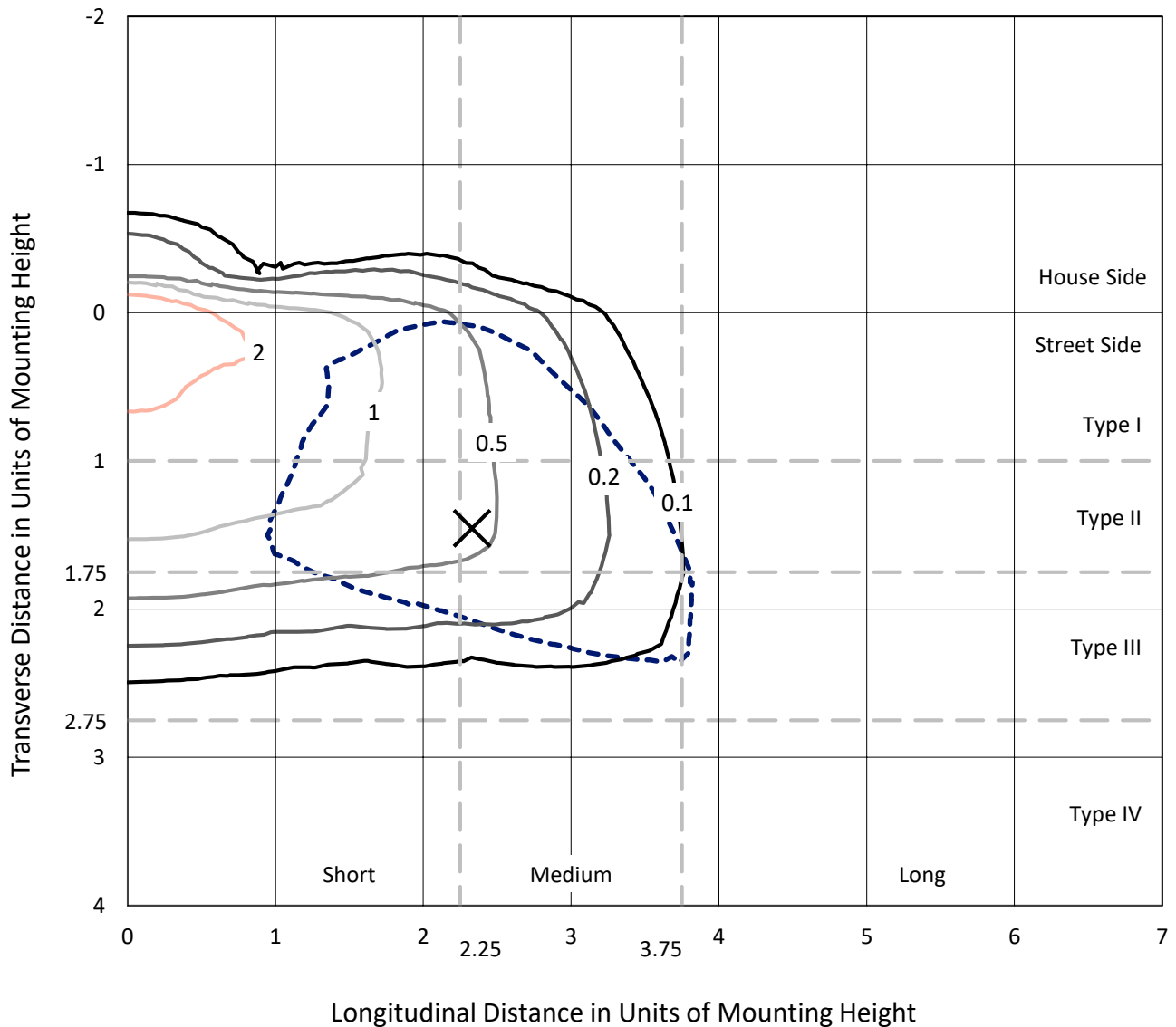
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382858
 CATALOG NUMBER: GLEON-SA2B-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

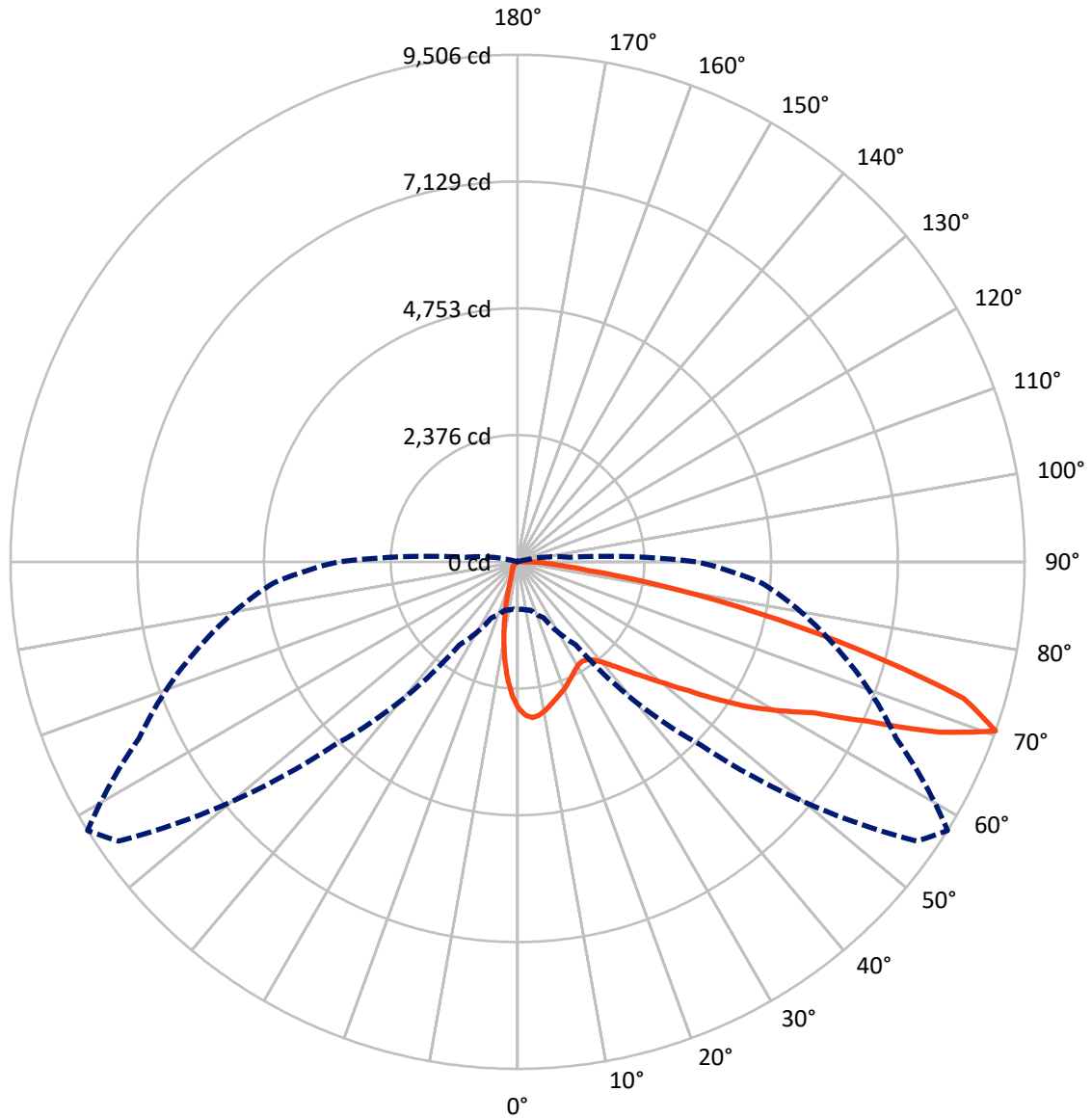
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P382858
CATALOG NUMBER: GLEON-SA2B-735-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P382858
 CATALOG NUMBER: GLEON-SA2B-735-U-SL3-HSS

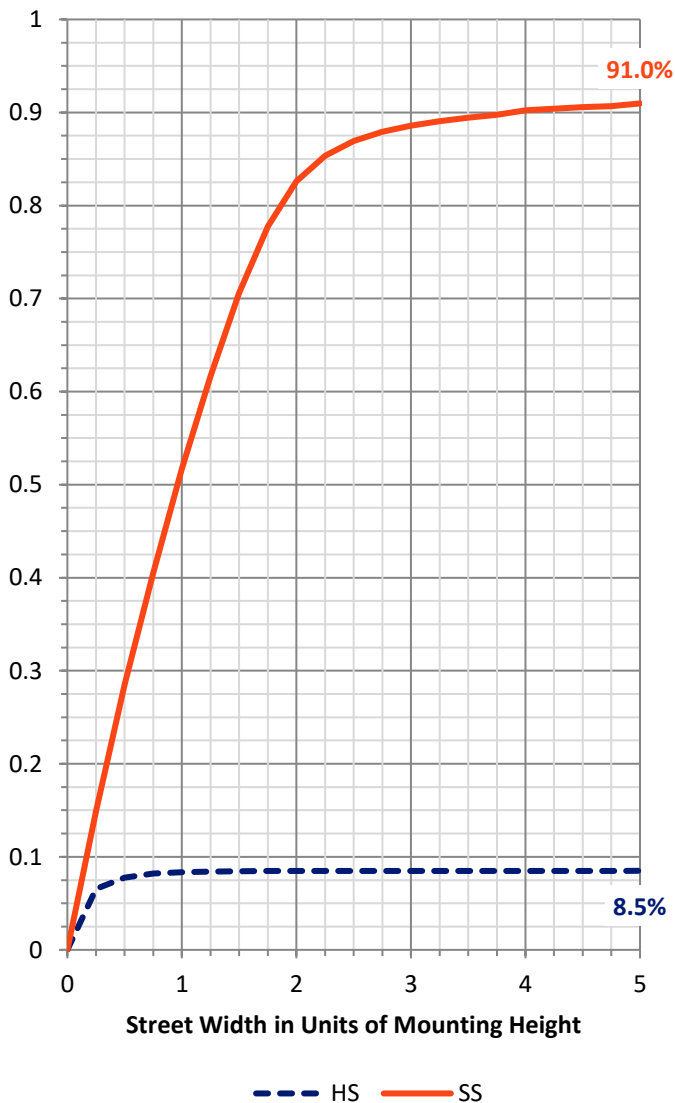
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	796.4	0.0	796.4
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	8509.8	0.0	8509.8
	% Fixture	91.4	0.0	91.4
Total	Lumens	9306.2	0.0	9306.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	2.4
10°-20°	471.8	5.1
20°-30°	620.2	6.7
30°-40°	821.5	8.8
40°-50°	1227.8	13.2
50°-60°	1966.9	21.1
60°-70°	2479.3	26.6
70°-80°	1337.3	14.4
80°-90°	156.5	1.7
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°	9306.2	100.0
0°-180°	9306.2	100.0

Coefficient of Utilization

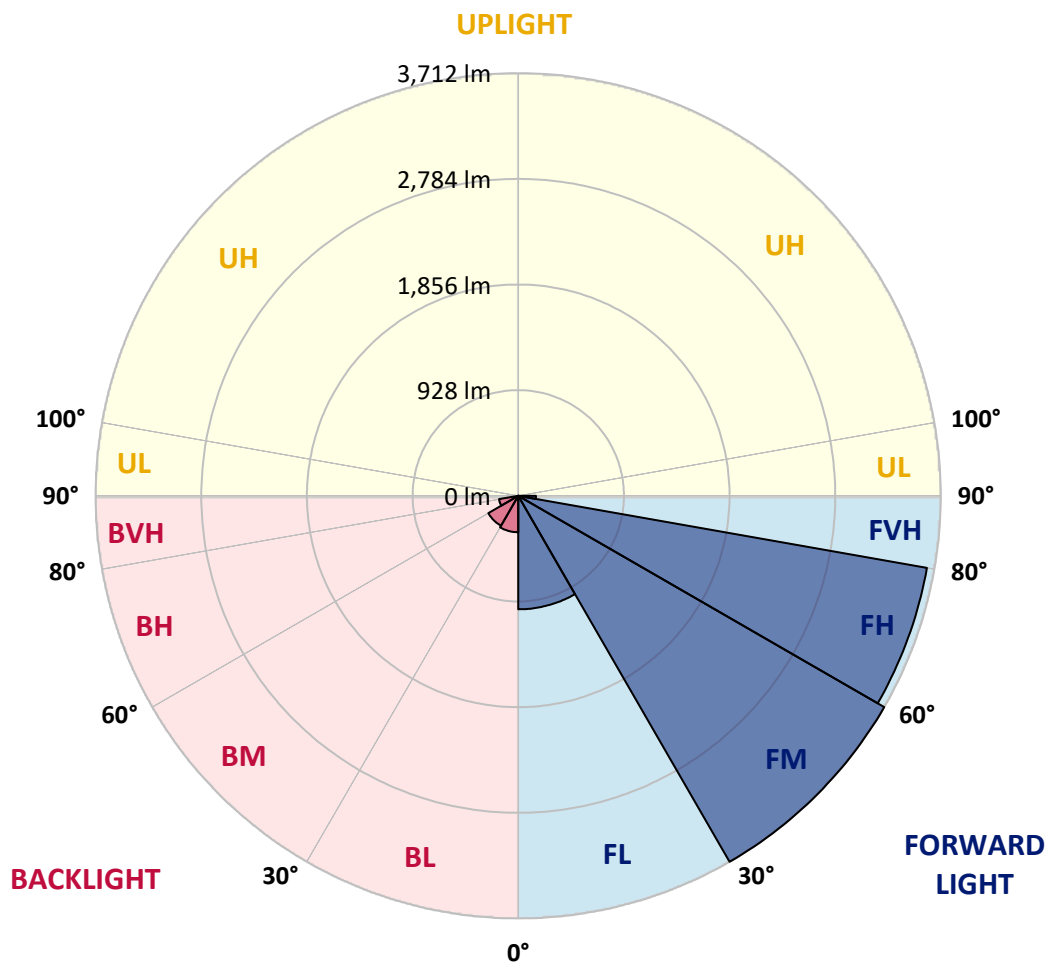


REPORT NUMBER: P382858
 CATALOG NUMBER: GLEON-SA2B-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.9	10.7			
FM (30°-60°)	3712.4	39.9			
FH (60°-80°)	3645.3	39.2			G2/5000
FVH (80°-90°)	155.2	1.7			G2/225
BL (0°-30°)	320.0	3.4	B1/500		
BM (30°-60°)	303.8	3.3	B1/1000		
BH (60°-80°)	171.3	1.8	B1/500		G1/500
BVH (80°-90°)	1.4	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 Medium





REPORT NUMBER: P382858

CATALOG NUMBER: GLEON-SA2B-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0
2.5°	2976.9	2969.6	2966.9	2962.2	2944.4	2927.0	2892.5	2882.9	2861.2	2809.7	2755.1
5°	2979.3	2978.8	2987.0	2985.1	2978.8	2970.7	2945.9	2933.2	2896.5	2822.9	2723.1
7.5°	2835.6	2843.0	2861.2	2875.9	2892.9	2915.0	2918.1	2905.7	2875.5	2796.2	2663.9
10°	2643.0	2654.5	2680.2	2709.1	2753.7	2797.7	2837.2	2835.6	2825.2	2747.0	2592.7
12.5°	2449.9	2463.4	2492.8	2535.8	2598.8	2670.8	2741.3	2751.0	2768.4	2703.0	2526.9
15°	2280.8	2292.4	2321.4	2374.0	2452.2	2548.9	2652.2	2670.1	2714.9	2668.5	2472.0
17.5°	2137.2	2144.5	2165.8	2224.3	2314.8	2432.1	2566.3	2601.2	2668.1	2641.4	2424.4
20°	2037.0	2038.1	2052.1	2093.1	2183.6	2314.8	2477.4	2527.3	2618.6	2618.2	2375.2
22.5°	1987.5	1983.5	1986.2	2009.9	2076.4	2203.0	2388.3	2447.5	2574.1	2598.5	2325.2
25°	1978.1	1975.1	1967.3	1970.4	2010.7	2105.1	2298.6	2367.1	2535.0	2586.4	2281.9
27.5°	2007.2	2010.3	1997.1	1983.2	1986.2	2041.6	2218.9	2298.2	2503.3	2586.4	2251.4
30°	2065.6	2067.2	2057.5	2039.3	2014.9	2023.8	2163.5	2242.9	2487.4	2604.2	2232.0
32.5°	2130.3	2138.7	2137.6	2122.9	2088.1	2052.1	2150.4	2222.8	2486.2	2643.7	2230.0
35°	2210.4	2220.0	2236.3	2233.2	2196.8	2137.6	2195.3	2252.1	2509.1	2708.8	2251.0
37.5°	2295.5	2310.1	2345.0	2361.7	2338.0	2271.1	2295.9	2336.5	2570.2	2814.0	2304.0
40°	2377.9	2394.5	2458.0	2523.4	2505.6	2436.7	2448.3	2480.8	2678.9	2965.3	2404.6
42.5°	2458.7	2483.5	2576.8	2684.3	2705.7	2650.7	2656.9	2682.9	2840.3	3173.5	2569.0
45°	2555.5	2583.4	2721.5	2854.3	2911.2	2887.1	2913.4	2930.5	3051.2	3448.6	2790.8
47.5°	2697.6	2729.6	2899.2	3050.4	3150.3	3165.8	3218.8	3230.0	3317.8	3769.0	3079.9
50°	2974.6	2983.5	3136.7	3274.1	3418.0	3510.9	3571.3	3579.8	3640.6	4119.2	3440.9
52.5°	3323.3	3329.1	3415.7	3507.8	3671.5	3861.2	4002.4	4014.4	4027.2	4460.5	3797.3
55°	3669.6	3668.8	3726.1	3780.2	3967.6	4243.1	4549.6	4556.9	4465.2	4784.4	4069.7
57.5°	3885.9	3906.8	3993.8	4063.5	4325.1	4678.4	5103.7	5130.8	4925.3	5024.3	4339.1
60°	3817.0	3827.1	4020.2	4277.9	4770.5	5297.2	5664.4	5671.4	5271.3	5263.9	4679.5
62.5°	3252.0	3257.4	3560.8	4092.2	4996.1	6099.7	6340.8	6227.4	5669.0	5596.3	5087.0
65°	2228.9	2264.1	2517.6	3174.2	4581.6	6603.2	7387.9	7200.2	6275.4	6075.4	5455.4
67.5°	1312.6	1305.2	1430.6	1914.3	3365.0	6268.8	8712.5	8526.0	7102.3	6396.1	5347.5
70°	896.6	891.6	939.6	1158.9	1899.6	4863.0	9129.3	9505.8	7832.5	6180.2	4602.1
72.5°	640.1	642.8	713.6	900.4	1192.7	2833.4	7850.7	8741.9	7603.9	5387.7	3498.1
75°	434.6	441.9	543.3	738.7	1045.6	1441.5	5571.1	6645.4	6191.8	3915.7	2010.7
77.5°	233.7	241.8	361.4	595.2	945.3	1001.5	3583.7	4573.5	3889.4	1760.3	582.8
80°	97.5	102.2	169.1	432.6	816.9	879.6	2108.6	2773.4	1657.4	347.1	130.0
82.5°	42.2	44.5	70.4	258.1	610.6	742.6	1116.4	1334.3	502.3	76.2	65.4
85°	8.1	8.5	29.1	136.6	389.7	419.1	723.6	709.3	225.6	32.9	47.6
87.5°	0.0	0.0	7.0	42.9	114.6	228.3	441.6	436.2	76.6	15.8	17.8
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: P382858

CATALOG NUMBER: GLEON-SA2B-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0	2749.0
2.5°	2727.3	2700.6	2644.5	2575.3	2522.3	2463.8	2417.4	2358.6	2333.0	2334.2	2320.2
5°	2666.2	2611.2	2487.0	2330.3	2209.5	2085.0	1977.8	1871.0	1807.9	1787.4	1768.1
7.5°	2578.7	2491.7	2293.6	2052.1	1847.7	1648.1	1474.4	1321.5	1224.7	1177.6	1160.1
10°	2480.1	2357.7	2071.0	1753.0	1461.1	1191.1	965.8	770.0	691.9	638.9	625.3
12.5°	2393.3	2227.8	1853.6	1446.0	1099.8	773.9	559.2	437.3	384.3	363.4	359.9
15°	2311.7	2106.2	1644.2	1168.3	761.5	476.4	355.7	314.2	301.8	298.4	298.4
17.5°	2234.7	1990.5	1439.5	894.7	503.9	334.0	294.5	285.1	281.3	281.0	281.3
20°	2154.2	1874.8	1238.3	655.5	351.8	282.9	272.0	267.0	265.9	265.9	265.9
22.5°	2077.3	1759.1	1042.5	468.2	282.1	258.1	252.7	249.2	248.1	247.7	246.9
25°	2003.3	1649.2	851.3	330.9	247.7	236.4	231.8	227.1	223.7	221.7	220.6
27.5°	1942.6	1551.3	673.3	265.5	223.7	214.0	208.2	201.2	192.7	188.8	187.3
30°	1894.2	1462.0	519.0	224.0	201.2	191.5	182.7	170.7	158.3	151.7	151.3
32.5°	1856.3	1374.1	394.0	198.1	181.1	169.1	156.3	141.2	127.0	119.6	119.1
35°	1837.7	1296.7	301.1	179.1	163.3	148.2	132.4	115.7	101.8	94.8	94.0
37.5°	1850.1	1231.3	234.8	163.3	148.2	130.8	112.3	94.8	82.4	76.2	75.8
40°	1895.3	1189.5	190.8	149.8	135.4	114.1	94.0	77.8	67.4	62.3	61.9
42.5°	1991.7	1174.0	162.9	138.5	123.1	98.7	78.2	64.3	54.6	51.0	50.3
45°	2152.7	1196.9	143.9	127.7	110.3	83.9	64.6	52.6	44.2	41.4	41.0
47.5°	2367.1	1256.8	130.4	117.3	98.7	70.8	53.8	42.6	36.0	33.3	32.9
50°	2643.4	1352.0	119.1	106.8	87.8	60.0	44.5	33.6	27.9	25.9	25.9
52.5°	2944.1	1465.4	109.1	97.2	77.0	49.9	36.0	25.9	22.1	19.7	19.7
55°	3192.4	1564.5	98.3	89.8	63.8	41.4	27.5	19.7	16.2	15.1	15.1
57.5°	3440.5	1670.2	85.9	77.0	51.0	33.6	20.9	14.7	12.0	11.2	11.2
60°	3762.1	1799.4	73.9	62.7	40.2	25.5	15.5	10.4	8.9	8.5	8.5
62.5°	4115.8	1875.2	63.1	50.3	31.3	19.0	11.2	7.0	6.6	6.6	6.1
65°	4332.1	1768.1	53.0	40.2	24.4	14.3	7.4	5.0	5.8	5.4	4.7
67.5°	4056.1	1384.2	43.3	31.3	19.0	10.8	4.7	3.4	6.1	5.0	3.9
70°	3358.5	969.0	33.6	22.1	15.1	9.3	3.1	2.3	6.6	5.0	3.1
72.5°	2513.3	648.5	26.7	14.7	11.2	8.1	2.7	1.1	5.8	4.3	2.7
75°	1373.4	261.2	21.2	9.3	7.0	5.8	2.0	0.7	3.9	3.1	2.0
77.5°	361.4	68.8	15.5	6.1	3.9	2.3	1.1	0.4	2.0	1.6	0.7
80°	92.1	26.7	10.1	4.3	2.7	1.1	0.0	0.0	0.4	0.0	0.0
82.5°	49.2	11.2	6.1	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.2	7.4	3.4	2.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.3	2.3	1.1	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)