

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: P383044

Luminaire Tested: **GLEON-SA3D-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15993.7 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

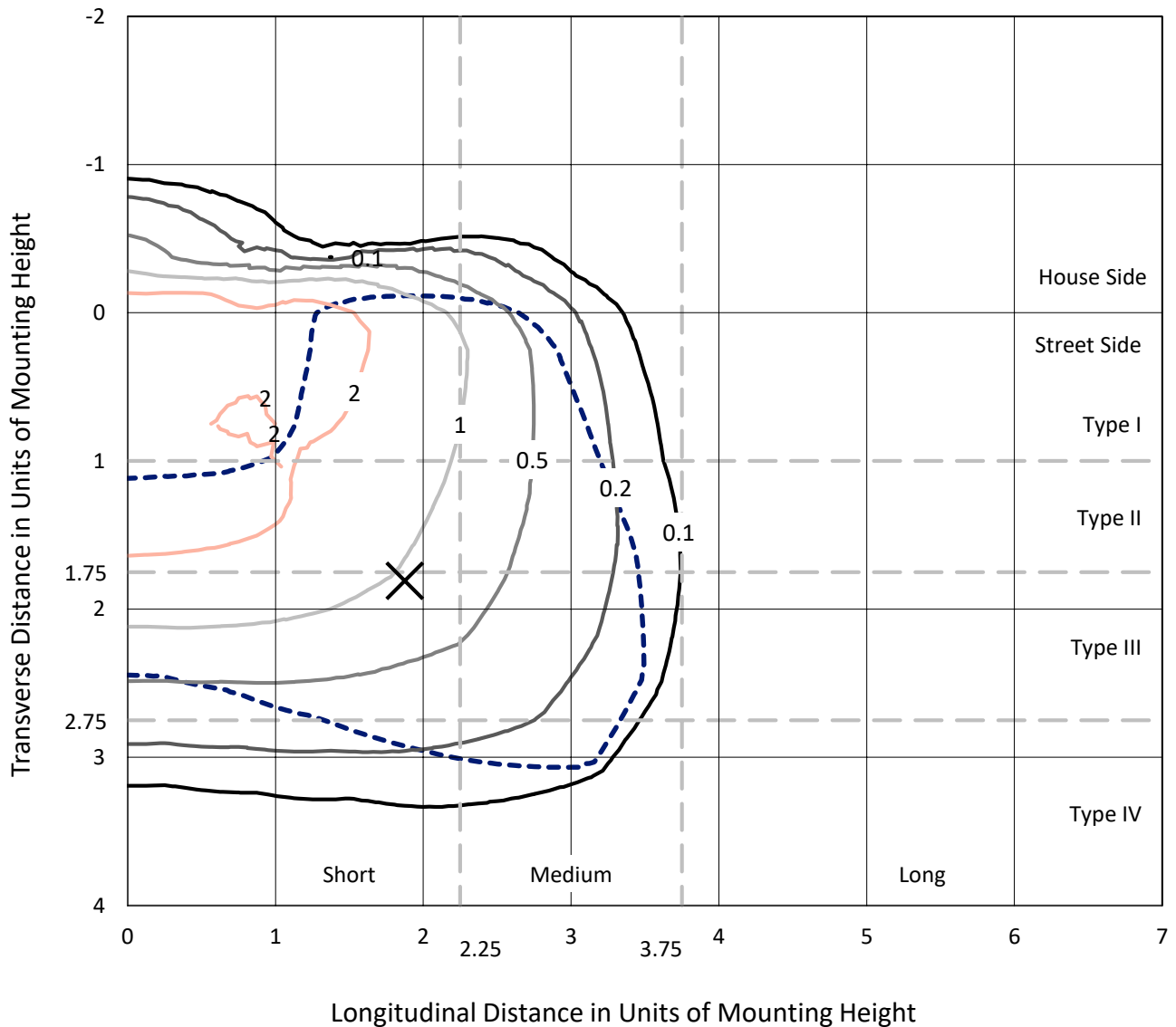
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

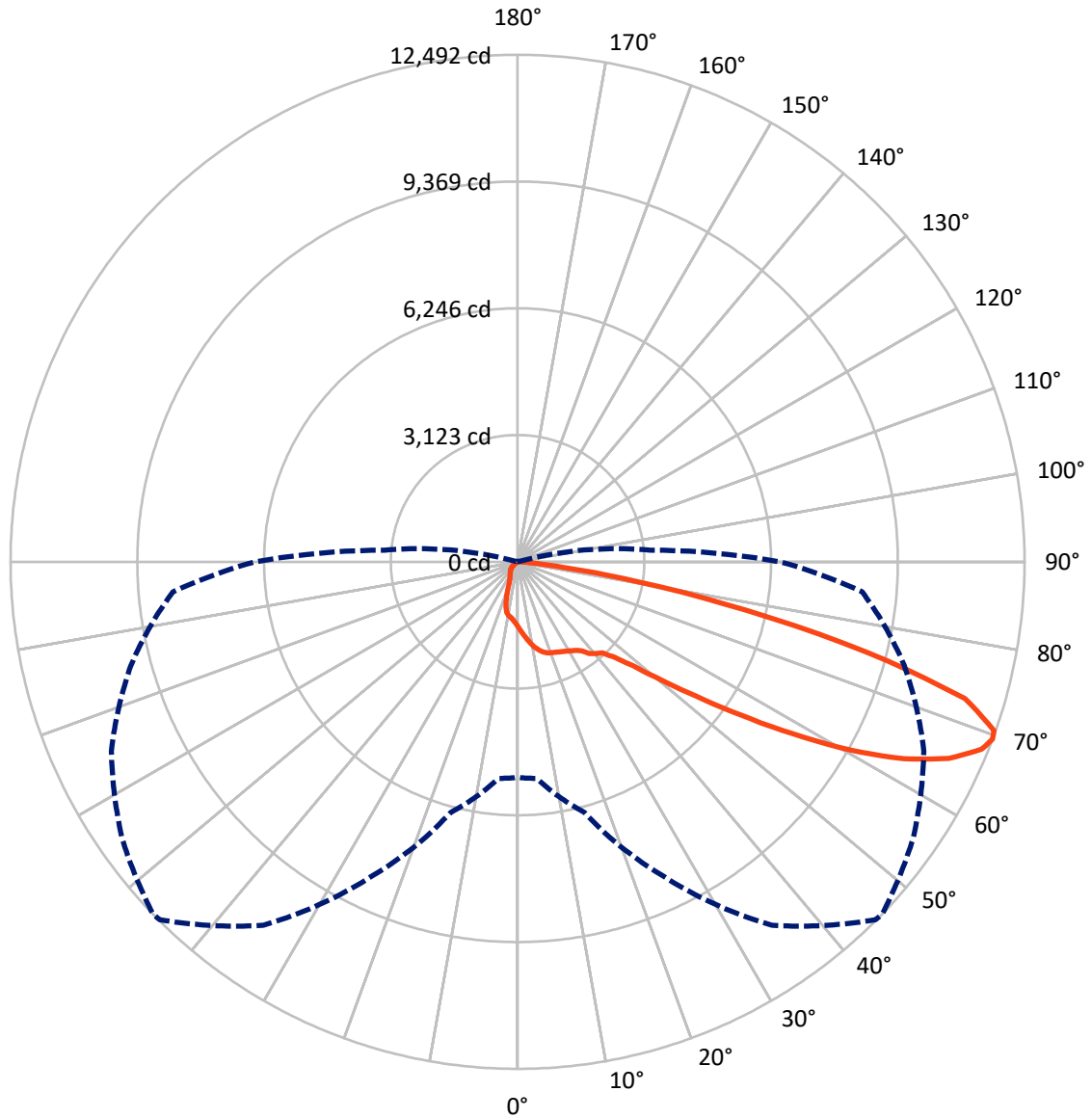
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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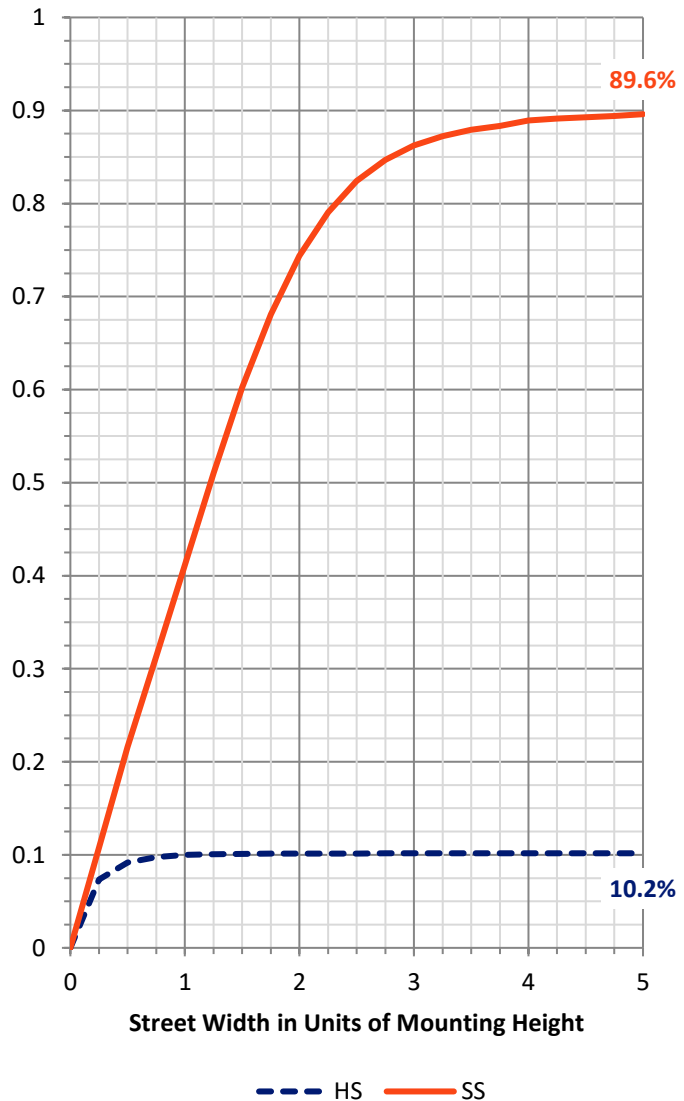
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1641.4	0.0	1641.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14352.3	0.0	14352.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	15993.7	0.0	15993.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	1.0
10°-20°	483.9	3.0
20°-30°	761.0	4.8
30°-40°	1091.3	6.8
40°-50°	1886.2	11.8
50°-60°	3726.3	23.3
60°-70°	5207.8	32.6
70°-80°	2515.9	15.7
80°-90°	161.7	1.0
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°	15993.7	100.0
0°-180°	15993.7	100.0

Coefficient of Utilization



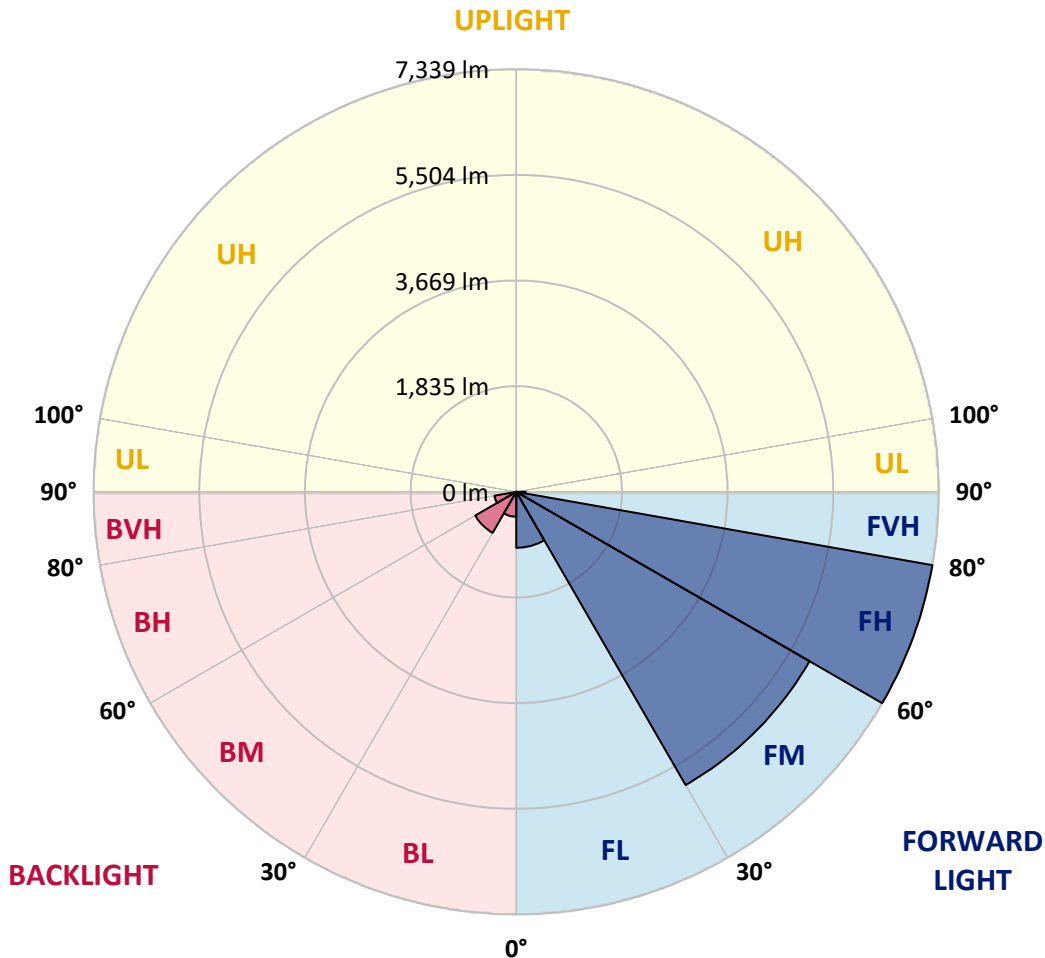
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	971.8	6.1			
FM (30°-60°)	5881.3	36.8			
FH (60°-80°)	7338.9	45.9			G3/7500
FVH (80°-90°)	160.3	1.0			G2/225
BL (0°-30°)	432.6	2.7	B1/500		
BM (30°-60°)	822.5	5.1	B1/1000		
BH (60°-80°)	384.9	2.4	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5
2.5°	1780.3	1778.0	1767.5	1763.0	1737.5	1722.5	1716.5	1697.7	1670.7	1643.7	1613.7
5°	1982.7	1982.0	1962.5	1943.7	1895.7	1850.7	1842.5	1799.0	1738.3	1681.3	1624.2
7.5°	2189.7	2179.9	2160.4	2124.4	2054.7	1982.7	1976.0	1914.4	1828.3	1745.7	1664.0
10°	2365.1	2359.1	2333.6	2278.9	2197.1	2115.5	2107.2	2031.4	1934.0	1832.7	1728.5
12.5°	2501.7	2497.1	2463.4	2395.1	2308.2	2223.4	2212.1	2144.7	2040.5	1927.2	1804.2
15°	2584.9	2582.6	2541.4	2468.6	2383.2	2309.7	2299.9	2240.7	2144.0	2025.5	1886.8
17.5°	2604.3	2605.1	2562.4	2488.9	2418.4	2365.9	2358.4	2313.4	2232.5	2114.7	1969.2
20°	2560.9	2569.9	2531.7	2467.9	2424.4	2396.7	2390.6	2363.6	2295.4	2184.4	2035.2
22.5°	2499.3	2503.9	2477.6	2434.9	2416.9	2422.1	2419.1	2404.1	2346.4	2244.4	2100.5
25°	2461.9	2461.9	2446.2	2410.1	2422.1	2454.3	2455.1	2452.1	2406.4	2317.9	2179.9
27.5°	2460.4	2455.9	2437.9	2410.9	2443.9	2493.4	2496.4	2516.7	2488.2	2407.1	2278.9
30°	2520.4	2515.1	2476.9	2441.7	2483.6	2536.9	2544.3	2588.6	2574.3	2503.9	2389.1
32.5°	2660.6	2641.9	2557.1	2499.3	2530.9	2594.6	2604.3	2674.8	2697.4	2623.1	2495.6
35°	2852.6	2793.3	2671.1	2608.9	2611.9	2678.6	2687.6	2791.1	2857.8	2732.6	2578.2
37.5°	3117.3	3088.1	2889.3	2722.8	2736.3	2837.6	2863.9	2976.3	2957.6	2792.6	2671.9
40°	3697.7	3651.9	3440.5	3042.3	2855.6	2966.6	2974.8	3034.8	3036.3	2928.3	2866.8
42.5°	4488.1	4469.4	4246.6	3622.0	3090.3	3052.8	3067.8	3169.0	3282.3	3214.8	3211.8
45°	5363.2	5353.4	5117.3	4391.3	3564.9	3335.5	3354.2	3489.9	3706.7	3721.7	3816.9
47.5°	6067.4	6062.9	5927.2	5250.0	4291.6	3814.7	3820.6	3964.7	4345.6	4533.8	4686.1
50°	6709.3	6731.0	6623.8	6179.0	5281.5	4565.3	4551.1	4647.0	5259.0	5567.2	5756.1
52.5°	7601.6	7632.4	7331.7	7045.9	6320.1	5496.7	5485.4	5585.9	6356.8	6587.8	6621.5
55°	8389.8	8337.3	8099.5	8017.1	7586.6	6647.1	6644.0	6732.5	7418.7	7516.8	7579.2
57.5°	8737.7	8717.4	8832.2	9021.2	8913.1	8006.6	7999.9	7932.3	8368.7	8379.3	8570.5
60°	8957.4	8982.2	9333.8	9916.5	10185.7	9469.6	9426.1	9014.4	9276.2	9252.9	9457.6
62.5°	8792.4	8841.2	9474.1	10445.2	11138.1	10746.7	10685.1	10005.8	10051.5	9971.3	10161.8
65°	7916.6	7992.3	9029.4	10345.5	11610.5	11744.8	11682.5	10880.8	10667.2	10535.2	10429.4
67.5°	6428.1	6473.0	7555.9	9477.8	11397.6	12340.2	12327.4	11648.1	11132.1	10439.9	9619.5
69°	5312.2	5356.5	6398.8	8564.5	10928.9	12467.6	12492.4	11894.0	11043.6	9861.1	8523.2
70°	4499.4	4546.6	5517.6	7781.6	10385.2	12408.4	12452.6	11870.7	10790.1	9190.6	7561.1
72.5°	2359.9	2400.4	3397.0	5361.0	8466.3	11393.9	11528.1	10867.4	9146.4	6674.7	4470.9
75°	741.6	764.9	1326.5	2802.4	5796.6	8859.2	8889.9	8524.8	6494.7	3671.4	1862.0
77.5°	282.7	275.9	441.6	1032.6	2930.6	5578.4	5766.7	5327.2	3408.3	1298.0	429.7
80°	152.2	153.0	229.4	427.4	1253.8	2866.8	3025.8	2581.9	1211.1	404.9	99.0
82.5°	66.0	69.0	129.0	226.5	575.9	1057.3	1136.9	946.4	462.7	272.2	36.7
85°	14.3	15.7	62.2	123.0	234.7	297.0	311.2	306.7	294.7	211.5	14.3
87.5°	0.0	0.0	27.8	44.2	59.2	67.4	59.2	77.2	162.7	142.4	7.5
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°	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5	1602.5
2.5°	1604.0	1590.5	1567.2	1541.8	1523.7	1505.0	1490.0	1483.3	1475.8	1470.5	1477.2
5°	1601.1	1574.8	1529.8	1486.3	1454.8	1429.3	1408.3	1400.0	1391.8	1385.8	1385.0
7.5°	1627.2	1590.5	1521.5	1457.8	1409.1	1374.6	1346.1	1334.1	1324.3	1319.8	1316.1
10°	1677.5	1630.3	1538.0	1454.8	1391.8	1333.3	1271.8	1224.6	1193.8	1179.6	1174.3
12.5°	1742.7	1683.5	1569.5	1470.5	1379.1	1266.5	1136.1	1023.6	950.8	926.9	912.6
15°	1819.2	1745.7	1610.7	1490.8	1332.6	1127.1	905.8	758.9	691.4	677.9	662.9
17.5°	1892.7	1811.8	1660.3	1494.6	1230.6	900.6	663.6	564.0	537.7	546.6	549.0
20°	1957.2	1877.0	1709.0	1461.5	1045.4	675.7	513.7	489.0	498.7	515.9	519.0
22.5°	2022.5	1939.9	1754.0	1374.6	808.4	512.9	462.7	468.7	478.4	495.7	498.7
25°	2101.9	2016.4	1796.0	1214.8	606.6	436.4	439.4	448.4	458.2	474.0	475.5
27.5°	2193.4	2113.2	1823.7	1007.1	449.9	401.2	410.9	424.4	434.2	449.2	452.2
30°	2314.9	2240.7	1832.7	791.9	377.2	369.7	374.2	390.7	404.9	418.5	420.7
32.5°	2428.9	2366.7	1802.7	597.7	349.4	340.5	340.5	350.2	366.7	379.4	382.4
35°	2533.9	2493.4	1706.8	437.2	328.5	313.5	305.9	305.9	316.4	327.0	330.0
37.5°	2672.6	2671.1	1551.5	348.7	308.2	290.9	275.2	263.3	259.4	261.7	263.3
40°	2910.3	2912.6	1349.1	312.7	290.9	267.7	243.7	222.0	201.7	195.0	194.2
42.5°	3281.5	3247.7	1136.9	295.5	275.9	243.7	207.7	178.5	147.0	137.2	136.5
45°	3871.0	3670.7	911.9	279.7	260.2	216.7	171.7	132.0	106.5	99.0	99.0
47.5°	4729.6	4226.3	706.4	262.4	239.2	185.9	129.8	95.2	78.0	74.2	75.0
50°	5617.4	4770.8	541.4	240.7	213.7	153.7	95.9	69.0	59.2	59.2	60.0
52.5°	6404.8	5169.7	422.2	217.4	182.2	120.7	72.8	54.0	49.5	48.7	49.5
55°	7142.0	5426.9	323.2	190.5	144.8	90.0	55.5	44.2	41.3	39.8	39.0
57.5°	7852.9	5554.4	242.2	153.7	105.0	65.2	44.2	37.4	34.5	32.2	31.5
60°	8326.0	5451.0	166.5	113.3	72.8	47.2	36.7	32.2	28.5	26.3	25.5
62.5°	8593.0	5168.2	107.2	81.7	51.7	35.2	29.3	27.0	21.7	19.5	19.5
65°	8485.0	4701.8	75.0	58.5	37.4	26.3	21.7	21.7	15.7	12.8	12.0
67.5°	7519.2	3972.1	57.0	43.5	27.0	19.5	16.5	18.7	9.8	6.0	6.0
69°	6469.3	3292.0	48.7	36.0	22.5	15.7	14.3	17.2	6.7	4.5	3.7
70°	5622.6	2839.8	44.2	31.5	18.7	13.5	12.8	16.5	6.7	3.7	3.0
72.5°	3364.0	1583.7	33.7	22.5	12.0	10.5	10.5	18.7	6.7	3.7	3.0
75°	1359.6	557.9	24.8	15.7	9.0	9.0	12.8	24.0	6.0	3.0	2.2
77.5°	308.2	122.2	14.3	9.8	6.0	9.0	15.0	18.7	3.7	1.5	0.0
80°	75.0	30.0	9.0	6.0	3.7	6.7	11.3	10.5	0.7	0.0	0.0
82.5°	24.8	10.5	3.7	3.0	0.7	2.2	5.2	3.0	0.0	0.0	0.0
85°	10.5	6.0	1.5	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.7	2.2	0.0	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)