

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: P383100

Luminaire Tested: **GLEON-SA4B-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383100
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-SA4B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 15565.2 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

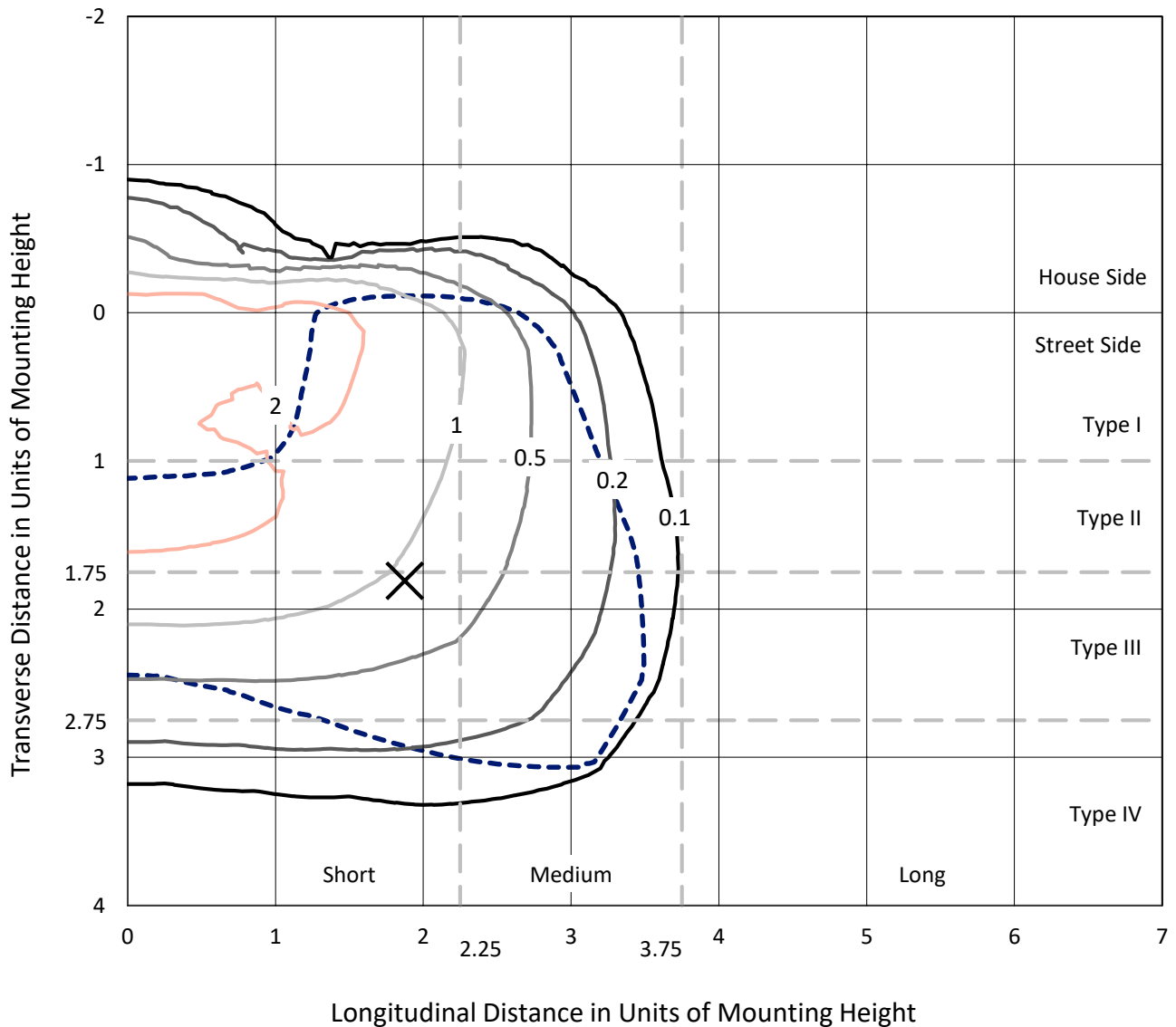
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

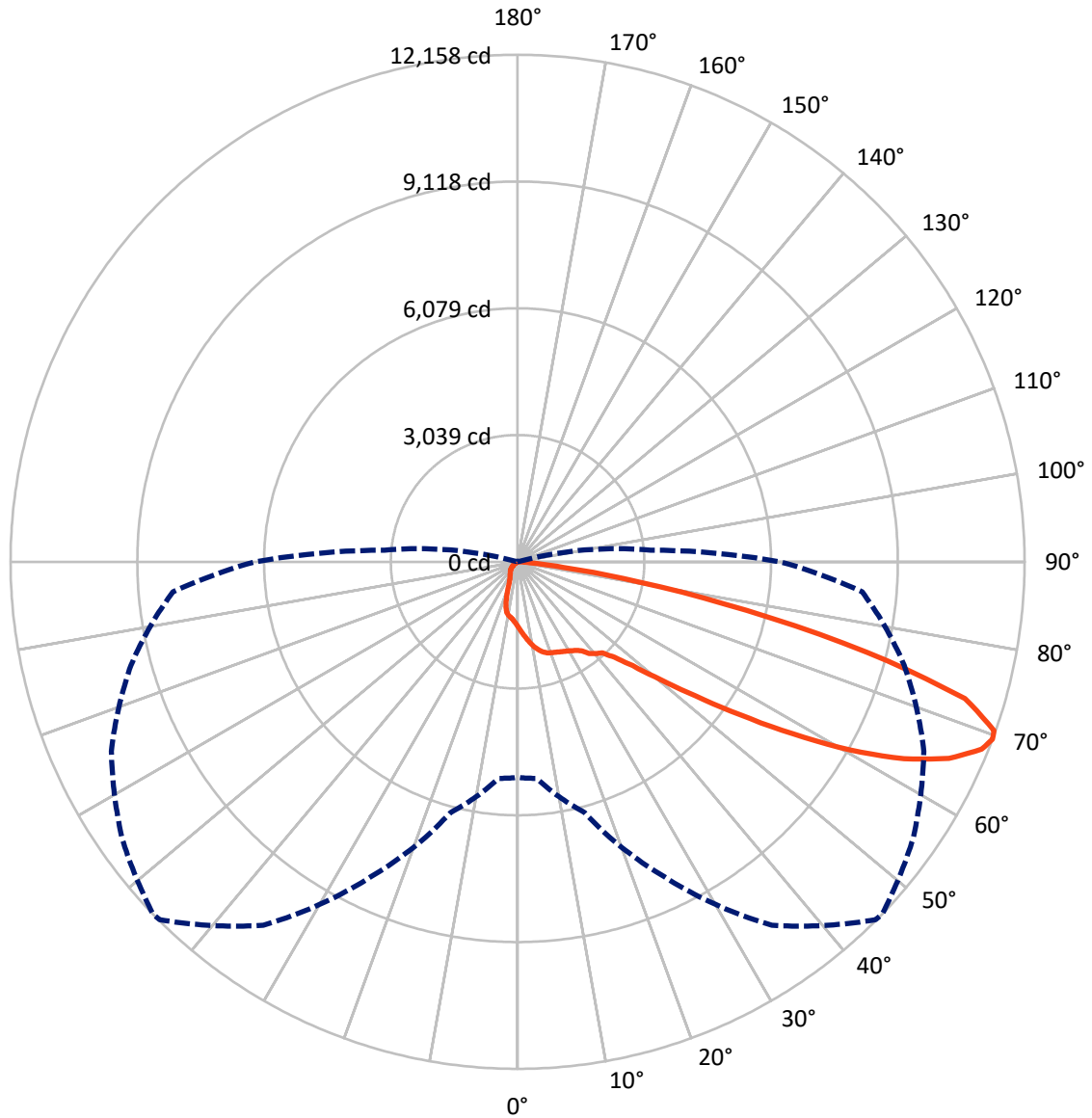
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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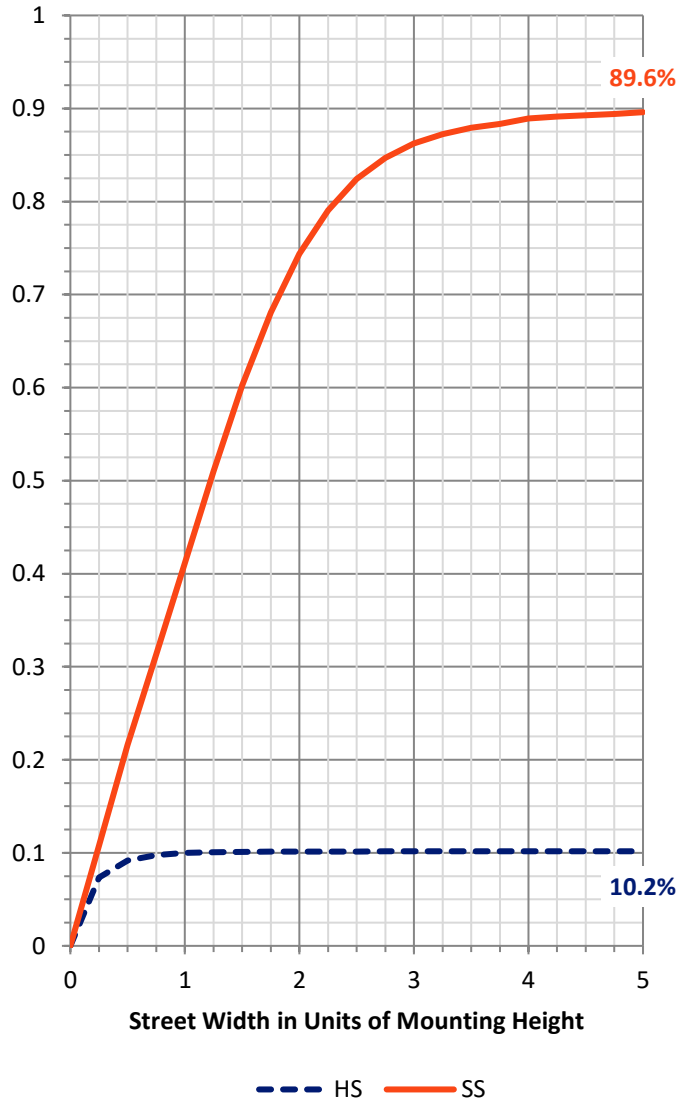
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1597.4	0.0	1597.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	13967.8	0.0	13967.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	15565.2	0.0	15565.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	1.0
10°-20°	470.9	3.0
20°-30°	740.6	4.8
30°-40°	1062.1	6.8
40°-50°	1835.6	11.8
50°-60°	3626.5	23.3
60°-70°	5068.3	32.6
70°-80°	2448.6	15.7
80°-90°	157.4	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°	15565.2	100.0
0°-180°	15565.2	100.0

Coefficient of Utilization

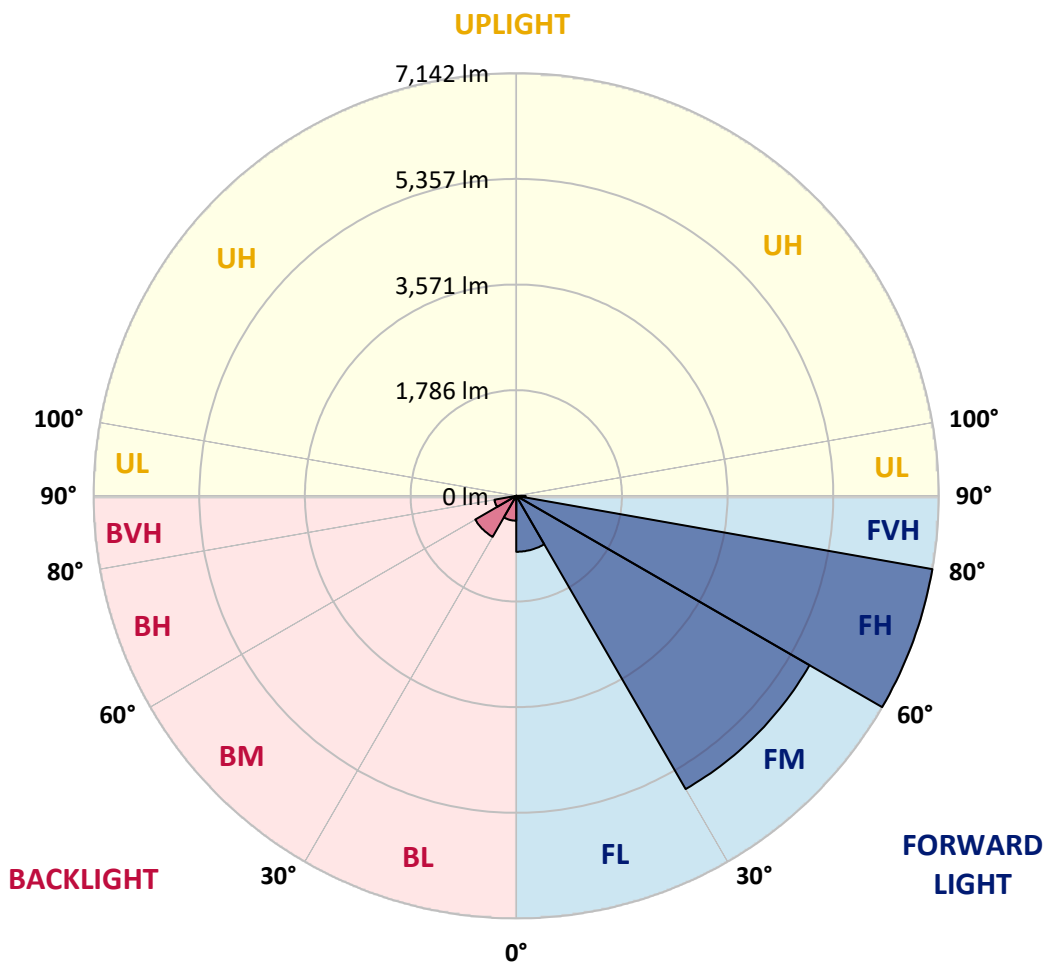


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	945.8	6.1			
FM (30°-60°)	5723.7	36.8			
FH (60°-80°)	7142.3	45.9			G3/7500
FVH (80°-90°)	156.1	1.0			G2/225
BL (0°-30°)	421.0	2.7	B1/500		
BM (30°-60°)	800.5	5.1	B1/1000		
BH (60°-80°)	374.6	2.4	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6
2.5°	1732.6	1730.3	1720.1	1715.7	1690.9	1676.3	1670.5	1652.3	1626.0	1599.7	1570.5
5°	1929.6	1928.9	1909.9	1891.6	1844.9	1801.1	1793.1	1750.8	1691.7	1636.2	1580.7
7.5°	2131.0	2121.5	2102.5	2067.5	1999.7	1929.6	1923.0	1863.2	1779.3	1699.0	1619.4
10°	2301.8	2296.0	2271.1	2217.8	2138.3	2058.7	2050.7	1977.0	1882.2	1783.6	1682.2
12.5°	2434.6	2430.2	2397.4	2331.0	2246.3	2163.9	2152.9	2087.2	1985.8	1875.6	1755.9
15°	2515.6	2513.4	2473.3	2402.5	2319.3	2247.7	2238.3	2180.7	2086.5	1971.2	1836.2
17.5°	2534.6	2535.3	2493.8	2422.2	2353.6	2302.5	2295.2	2251.5	2172.6	2058.1	1916.5
20°	2492.3	2501.0	2463.8	2401.8	2359.4	2332.4	2326.6	2300.4	2233.9	2125.9	1980.7
22.5°	2432.5	2436.8	2411.2	2369.7	2352.2	2357.3	2354.3	2339.8	2283.5	2184.3	2044.2
25°	2395.9	2395.9	2380.6	2345.5	2357.3	2388.7	2389.3	2386.4	2341.9	2255.8	2121.5
27.5°	2394.4	2390.1	2372.6	2346.3	2378.4	2426.6	2429.5	2449.2	2421.5	2342.7	2217.8
30°	2452.9	2447.7	2410.6	2376.2	2417.1	2468.9	2476.2	2519.3	2505.4	2436.8	2325.1
32.5°	2589.3	2571.1	2488.6	2432.5	2463.1	2525.1	2534.6	2603.2	2625.1	2552.8	2428.7
35°	2776.1	2718.5	2599.6	2538.9	2541.9	2606.8	2615.6	2716.3	2781.2	2659.4	2509.0
37.5°	3033.8	3005.3	2811.9	2649.9	2663.0	2761.6	2787.1	2896.6	2878.3	2717.8	2600.2
40°	3598.7	3554.1	3348.4	2960.8	2779.1	2887.1	2895.1	2953.5	2955.0	2849.9	2790.0
42.5°	4367.8	4349.6	4132.8	3524.9	3007.5	2971.0	2985.6	3084.2	3194.4	3128.6	3125.7
45°	5219.6	5210.1	4980.1	4273.7	3469.5	3246.2	3264.4	3396.5	3607.4	3622.0	3714.6
47.5°	5904.8	5900.4	5768.3	5109.4	4176.6	3712.5	3718.4	3858.5	4229.1	4412.4	4560.5
50°	6529.5	6550.6	6446.3	6013.5	5140.0	4443.0	4429.1	4522.6	5118.1	5418.0	5602.0
52.5°	7398.0	7427.9	7135.2	6857.2	6150.7	5349.4	5338.5	5436.2	6186.5	6411.3	6444.1
55°	8165.0	8113.9	7882.6	7802.3	7383.4	6468.9	6466.0	6552.1	7219.9	7315.5	7376.1
57.5°	8503.6	8483.9	8595.6	8779.5	8674.4	7792.0	7785.5	7719.8	8144.5	8154.8	8340.9
60°	8717.4	8741.5	9083.8	9650.8	9912.9	9215.9	9173.6	8772.9	9027.6	9005.0	9204.2
62.5°	8556.9	8604.3	9220.3	10165.3	10839.7	10458.8	10398.9	9737.7	9782.2	9704.1	9889.5
65°	7704.5	7778.1	8787.5	10068.3	11299.5	11430.1	11369.5	10589.4	10381.4	10252.9	10150.0
67.5°	6255.8	6299.6	7353.5	9223.9	11092.2	12009.5	11997.1	11335.9	10833.8	10160.2	9361.9
69°	5169.9	5212.9	6227.4	8335.0	10636.0	12133.6	12157.7	11575.3	10747.7	9596.8	8294.9
70°	4378.8	4424.8	5369.8	7573.1	10107.0	12075.9	12119.1	11552.7	10501.1	8944.4	7358.6
72.5°	2296.6	2336.0	3306.0	5217.3	8239.4	11088.6	11219.2	10576.2	8901.3	6496.0	4351.1
75°	721.8	744.4	1291.0	2727.3	5641.4	8621.8	8651.7	8296.4	6320.7	3573.0	1812.0
77.5°	275.2	268.6	429.8	1005.0	2852.0	5429.0	5612.1	5184.5	3317.0	1263.3	418.2
80°	148.1	148.9	223.3	416.0	1220.2	2790.0	2944.7	2512.7	1178.6	394.0	96.3
82.5°	64.2	67.2	125.5	220.4	560.5	1029.0	1106.4	921.0	450.3	264.9	35.8
85°	13.9	15.4	60.6	119.7	228.4	289.0	302.8	298.5	286.8	205.8	13.9
87.5°	0.0	0.0	27.0	43.0	57.7	65.7	57.7	75.2	158.4	138.7	7.3
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°	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6	1559.6
2.5°	1561.0	1547.9	1525.3	1500.4	1482.9	1464.7	1450.1	1443.5	1436.3	1431.1	1437.7
5°	1558.1	1532.6	1488.8	1446.4	1415.8	1391.0	1370.6	1362.6	1354.5	1348.7	1347.9
7.5°	1583.6	1547.9	1480.8	1418.7	1371.3	1337.7	1309.9	1298.3	1288.8	1284.4	1280.8
10°	1632.5	1586.6	1496.8	1415.8	1354.5	1297.6	1237.7	1191.7	1161.8	1147.9	1142.8
12.5°	1696.1	1638.4	1527.5	1431.1	1342.1	1232.6	1105.7	996.2	925.4	902.0	888.1
15°	1770.5	1699.0	1567.6	1450.8	1296.8	1096.9	881.6	738.5	672.9	659.7	645.1
17.5°	1842.0	1763.2	1615.8	1454.5	1197.6	876.5	645.8	548.8	523.3	532.0	534.2
20°	1904.7	1826.7	1663.2	1422.4	1017.3	657.6	499.9	475.8	485.3	502.1	505.0
22.5°	1968.3	1888.0	1707.0	1337.7	786.7	499.2	450.3	456.1	465.6	482.4	485.3
25°	2045.6	1962.4	1747.9	1182.2	590.4	424.8	427.7	436.4	445.9	461.2	462.7
27.5°	2134.6	2056.6	1774.9	980.1	437.9	390.4	399.9	413.0	422.5	437.2	440.1
30°	2252.9	2180.7	1783.6	770.7	367.1	359.8	364.1	380.3	394.0	407.3	409.4
32.5°	2363.8	2303.3	1754.5	581.7	340.1	331.4	331.4	340.9	356.9	369.3	372.2
35°	2466.0	2426.6	1661.0	425.4	319.6	305.1	297.7	297.7	308.0	318.2	321.1
37.5°	2601.0	2599.6	1509.9	339.4	300.0	283.2	267.8	256.2	252.5	254.7	256.2
40°	2832.4	2834.5	1312.9	304.3	283.2	260.6	237.2	216.0	196.3	189.8	189.0
42.5°	3193.6	3160.7	1106.4	287.6	268.6	237.2	202.1	173.7	143.1	133.6	132.8
45°	3767.2	3572.4	887.4	272.2	253.2	210.9	167.1	128.5	103.6	96.3	96.3
47.5°	4602.9	4113.2	687.5	255.4	232.8	181.0	126.2	92.7	75.9	72.3	72.9
50°	5466.9	4643.0	526.9	234.3	208.0	149.6	93.4	67.2	57.7	57.7	58.4
52.5°	6233.2	5031.2	410.9	211.6	177.4	117.5	70.8	52.5	48.2	47.4	48.2
55°	6950.6	5281.5	314.6	185.4	140.8	87.6	54.0	43.0	40.1	38.7	37.9
57.5°	7642.4	5405.6	235.7	149.6	102.2	63.5	43.0	36.5	33.5	31.4	30.6
60°	8103.0	5304.9	162.0	110.2	70.8	46.0	35.8	31.4	27.8	25.5	24.8
62.5°	8362.8	5029.8	104.3	79.6	50.4	34.3	28.5	26.3	21.1	19.0	19.0
65°	8257.7	4575.9	72.9	56.9	36.5	25.5	21.1	21.1	15.4	12.4	11.6
67.5°	7317.7	3865.7	55.4	42.3	26.3	19.0	16.0	18.3	9.5	5.9	5.9
69°	6296.0	3203.8	47.4	35.0	21.9	15.4	13.9	16.8	6.6	4.4	3.6
70°	5472.0	2763.7	43.0	30.6	18.3	13.1	12.4	16.0	6.6	3.6	2.9
72.5°	3273.8	1541.3	32.9	21.9	11.6	10.2	10.2	18.3	6.6	3.6	2.9
75°	1323.1	543.0	24.1	15.4	8.8	8.8	12.4	23.4	5.9	2.9	2.2
77.5°	300.0	119.0	13.9	9.5	5.9	8.8	14.6	18.3	3.6	1.5	0.0
80°	72.9	29.2	8.8	5.9	3.6	6.6	11.0	10.2	0.7	0.0	0.0
82.5°	24.1	10.2	3.6	2.9	0.7	2.2	5.1	2.9	0.0	0.0	0.0
85°	10.2	5.9	1.5	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.6	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)