

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: P646774

Luminaire Tested: **GALN-SA2C-835-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6461.3 lumens
Efficiency: N/A
Efficacy: 59.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

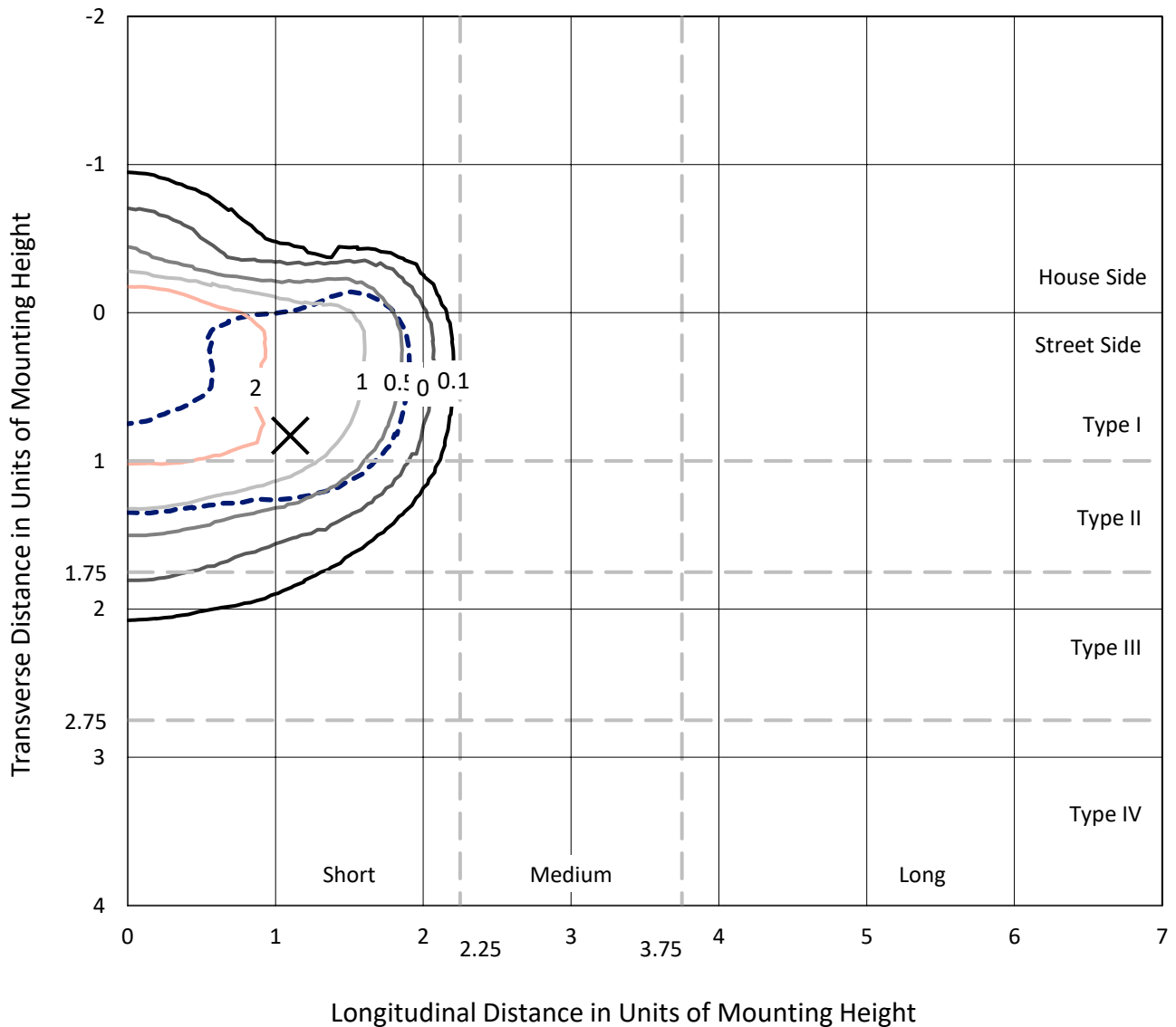
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

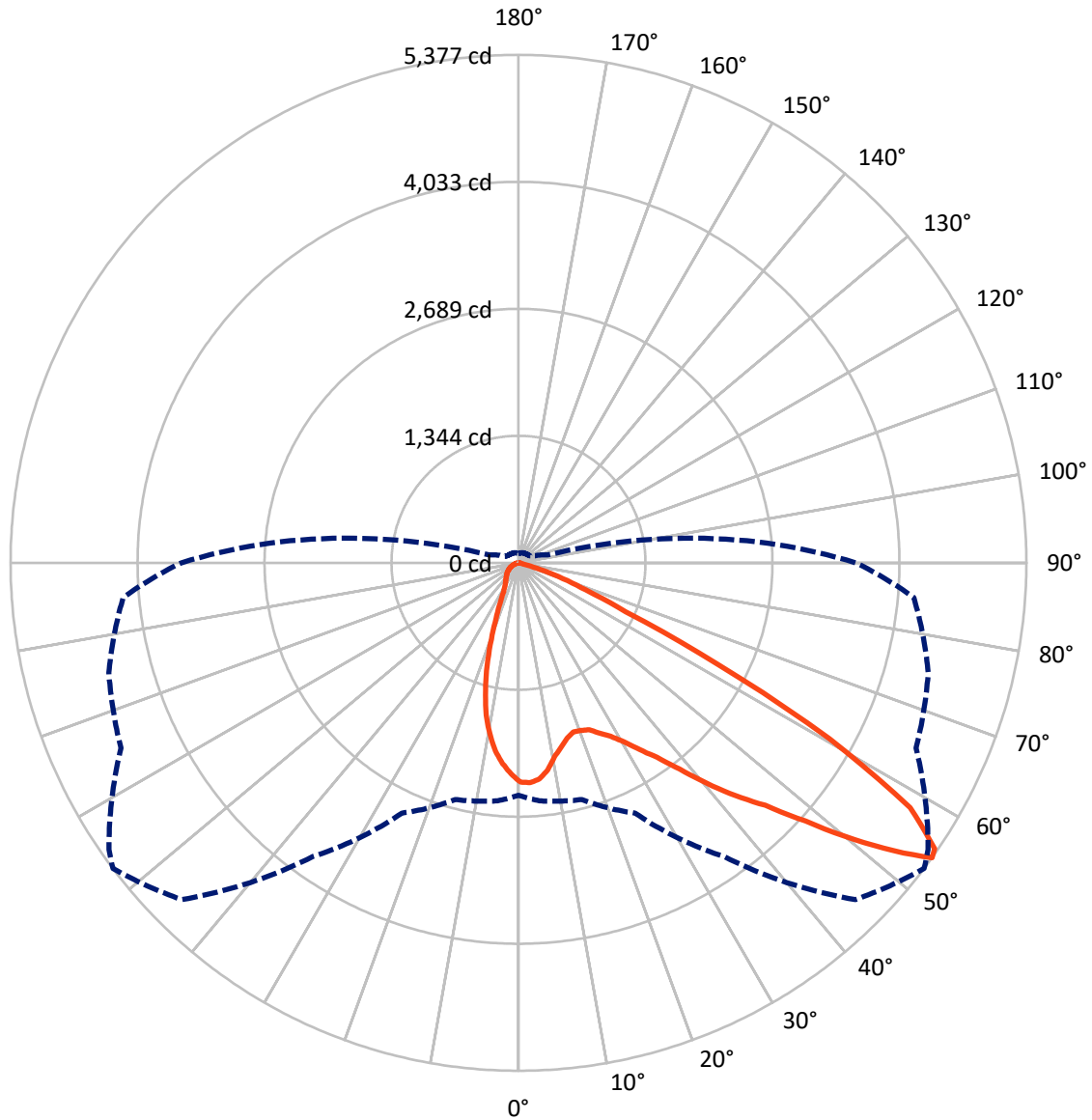
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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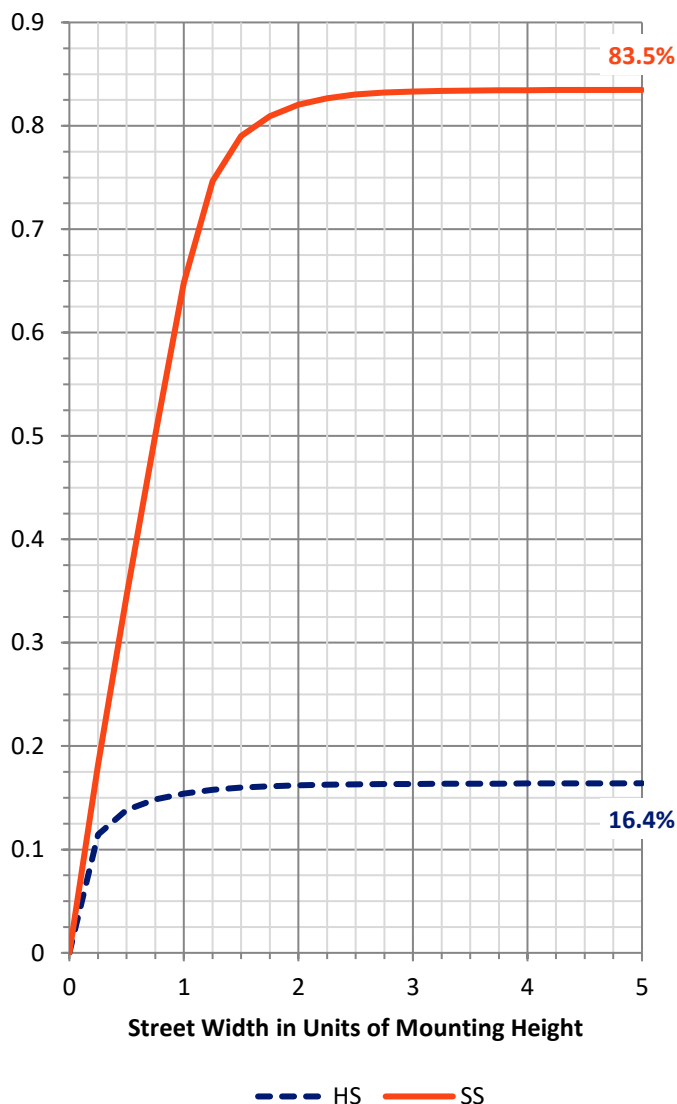
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1069.0	0.0	1069.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5392.3	0.0	5392.3
	% Fixture	83.5	0.0	83.5
Total	Lumens	6461.3	0.0	6461.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	3.1
10°-20°	456.5	7.1
20°-30°	648.8	10.0
30°-40°	1001.3	15.5
40°-50°	1569.9	24.3
50°-60°	1823.7	28.2
60°-70°	689.1	10.7
70°-80°	65.5	1.0
80°-90°	7.4	0.1
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°	6461.3	100.0
0°-180°	6461.3	100.0

Coefficient of Utilization



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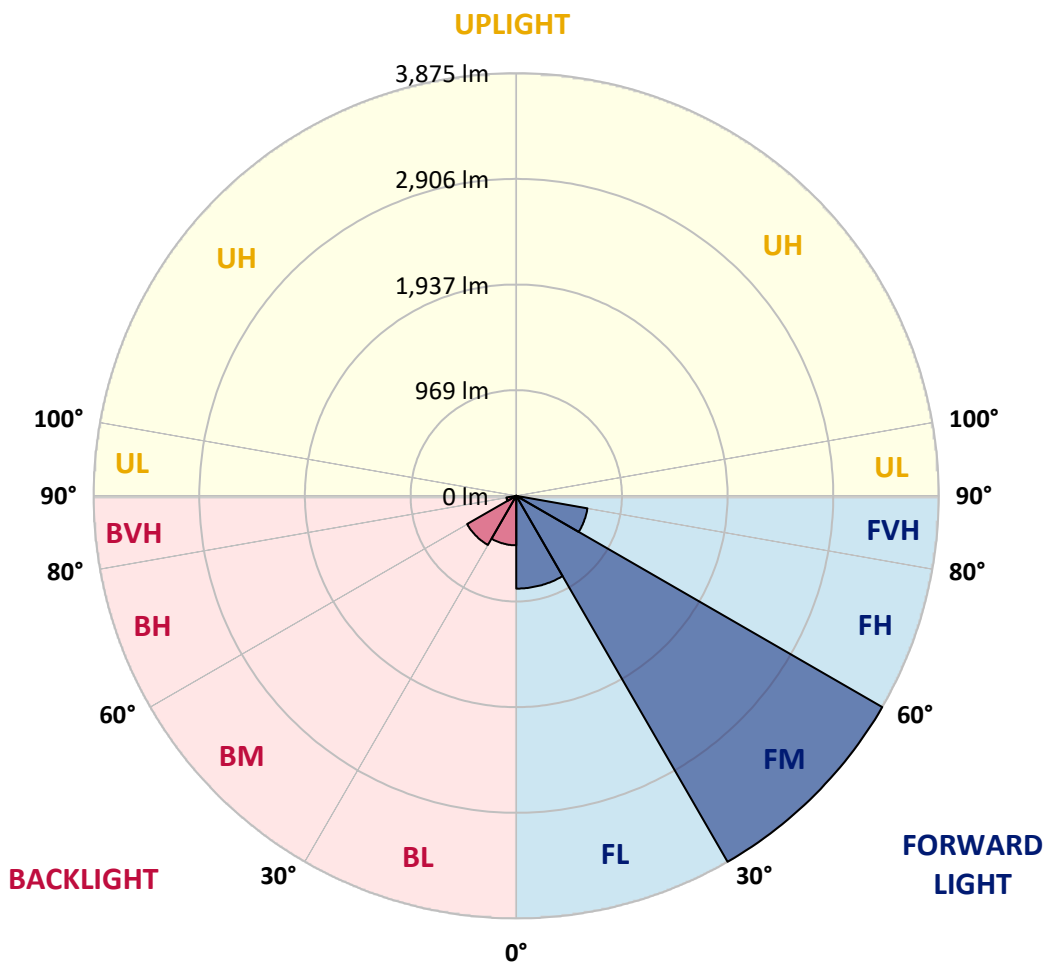
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	850.8	13.2			
FM (30°-60°)	3874.6	60.0			
FH (60°-80°)	663.0	10.3			G1/1800
FVH (80°-90°)	3.8	0.1			G0/10
BL (0°-30°)	453.7	7.0	B1/500		
BM (30°-60°)	520.2	8.1	B1/1000		
BH (60°-80°)	91.6	1.4	B0/110		G0/110
BVH (80°-90°)	3.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8
2.5°	2308.8	2288.3	2308.8	2311.2	2325.6	2338.8	2330.4	2349.7	2338.8	2326.8	2323.2
5°	2122.2	2149.9	2151.1	2194.4	2184.8	2264.2	2299.1	2289.5	2348.5	2344.9	2336.5
7.5°	1954.8	1944.0	1958.4	2009.0	2072.8	2164.3	2214.9	2213.7	2297.9	2358.1	2352.1
10°	1799.6	1798.4	1828.5	1868.2	1922.3	2018.7	2088.5	2123.4	2254.6	2346.1	2359.3
12.5°	1694.9	1690.0	1722.5	1755.0	1840.5	1915.1	2004.2	2021.1	2171.5	2304.0	2325.6
15°	1626.2	1637.1	1639.4	1702.1	1756.3	1854.9	1924.8	1959.7	2133.0	2270.2	2353.3
17.5°	1614.2	1628.6	1629.8	1681.6	1739.4	1822.4	1883.8	1930.8	2100.5	2287.1	2354.5
20°	1638.3	1629.8	1637.1	1669.6	1726.1	1805.6	1894.7	1910.3	2089.7	2295.5	2367.7
22.5°	1706.9	1704.5	1686.4	1712.9	1752.7	1835.7	1919.9	1944.0	2121.0	2338.8	2378.6
25°	1782.7	1796.0	1779.1	1775.5	1803.2	1885.1	1997.0	2028.3	2225.7	2417.1	2412.3
27.5°	1924.8	1911.5	1911.5	1894.7	1887.4	1927.2	2080.0	2131.8	2342.5	2518.2	2450.8
30°	2060.8	2075.3	2064.4	2070.4	2022.3	2018.7	2198.0	2261.8	2549.5	2672.3	2532.6
32.5°	2276.3	2257.0	2275.1	2259.4	2195.6	2130.6	2358.1	2424.3	2799.9	2849.3	2655.5
35°	2455.6	2447.2	2524.2	2521.8	2418.3	2354.5	2527.8	2626.6	2974.5	3061.1	2799.9
37.5°	2710.8	2695.2	2783.0	2825.1	2732.4	2637.4	2771.0	2885.4	3136.9	3230.8	2947.9
40°	2973.2	3012.9	3130.9	3200.7	3102.0	2975.6	3068.3	3103.2	3245.3	3341.5	3049.1
42.5°	3305.4	3363.2	3483.6	3543.8	3535.3	3398.1	3370.4	3369.2	3323.5	3310.3	3123.7
45°	3624.4	3602.7	3788.2	3919.4	4025.2	3985.5	3661.8	3625.6	3447.5	3357.2	3143.0
47.5°	3764.0	3756.8	3883.2	4116.8	4477.9	4527.2	4085.5	3945.9	3656.9	3554.6	3247.6
50°	3583.5	3620.8	3746.0	4004.8	4558.5	4935.3	4605.4	4417.7	3901.3	3795.4	3495.6
52.5°	2993.6	3018.9	3138.1	3466.7	4284.1	5176.0	5103.8	4995.5	4350.3	4174.6	3927.8
54°	2461.6	2529.0	2594.1	2923.9	3795.4	5042.4	5377.1	5294.0	4642.8	4490.0	4199.9
55°	2143.9	2183.6	2230.5	2559.2	3457.1	4816.2	5345.8	5353.0	4839.0	4588.6	4382.8
57.5°	1566.1	1593.7	1545.6	1691.3	2373.7	3910.9	4889.5	5084.6	5103.8	4736.7	4494.7
60°	1196.5	1208.6	1154.4	1177.2	1475.8	2684.4	3782.1	4016.9	4604.3	4139.6	3807.4
62.5°	928.1	930.5	929.3	969.0	1017.1	1579.3	2365.4	2573.6	3174.2	2939.5	2585.6
65°	683.7	672.9	692.2	812.5	867.9	993.1	1245.8	1397.5	1724.9	1456.5	1041.2
67.5°	442.9	446.6	465.8	604.2	743.9	761.9	766.8	754.7	755.9	416.5	261.2
70°	266.1	272.0	266.1	341.9	532.0	546.5	499.6	487.5	380.4	98.7	97.5
72.5°	157.7	149.2	133.6	146.9	221.5	264.8	238.3	237.2	149.2	57.8	57.8
75°	66.2	60.2	49.3	44.6	59.0	56.6	56.6	50.6	39.7	38.5	36.1
77.5°	13.2	13.2	9.6	10.8	14.4	16.8	20.4	20.4	24.0	24.0	22.9
80°	0.0	1.2	3.6	7.2	10.8	15.7	18.1	18.1	20.4	20.4	16.8
82.5°	0.0	1.2	3.6	7.2	9.6	14.4	18.1	18.1	20.4	21.7	18.1
85°	0.0	1.2	3.6	6.0	9.6	12.1	12.1	10.8	8.5	7.2	4.8
87.5°	0.0	0.0	1.2	2.4	1.2	2.4	2.4	2.4	2.4	2.4	2.4
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°	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8	2320.8
2.5°	2331.6	2330.4	2301.6	2254.6	2243.8	2204.1	2199.2	2175.2	2188.4	2143.9	2139.0
5°	2312.4	2297.9	2263.0	2233.0	2145.0	2082.5	2033.1	1972.9	1938.0	1944.0	1921.2
7.5°	2340.1	2302.7	2241.3	2136.7	2029.5	1919.9	1861.0	1738.2	1693.6	1627.5	1617.8
10°	2311.2	2283.5	2188.4	2015.1	1867.0	1709.3	1570.9	1434.8	1331.3	1286.8	1277.2
12.5°	2308.8	2260.6	2101.7	1909.1	1694.9	1468.5	1267.5	1097.8	995.5	937.7	924.5
15°	2271.4	2213.7	2004.2	1745.4	1449.3	1167.6	948.5	784.8	706.6	672.9	682.5
17.5°	2275.1	2188.4	1906.7	1572.1	1207.3	857.1	647.6	563.4	542.9	551.3	551.3
20°	2271.4	2131.8	1788.8	1372.3	924.5	594.6	475.4	445.4	458.6	485.1	479.1
22.5°	2252.2	2105.3	1680.4	1161.6	680.1	440.6	381.6	382.8	403.2	435.7	442.9
25°	2266.6	2046.4	1543.2	948.5	496.0	351.5	331.1	339.4	361.1	385.2	390.0
27.5°	2255.8	2004.2	1399.9	736.6	362.3	302.2	300.9	310.5	320.2	338.3	338.3
30°	2267.8	1965.7	1259.1	547.7	298.6	276.9	272.0	279.3	288.9	292.5	291.3
32.5°	2312.4	1936.8	1096.6	409.3	263.6	252.8	252.8	252.8	251.6	256.4	257.6
35°	2409.8	1941.6	953.4	316.6	240.8	232.3	228.7	223.9	221.5	223.9	225.1
37.5°	2515.8	1939.2	805.3	269.7	223.9	216.7	208.3	201.0	199.8	202.2	198.6
40°	2562.8	1962.1	668.1	241.9	208.3	199.8	186.6	180.6	181.7	184.2	181.7
42.5°	2626.6	1969.3	579.0	220.3	193.8	180.6	172.1	164.9	163.7	167.3	166.2
45°	2625.3	1928.4	485.1	208.3	180.6	166.2	155.3	149.2	149.2	151.7	152.8
47.5°	2702.4	1922.3	416.5	197.4	170.9	156.5	143.2	138.4	137.3	137.3	134.8
50°	2881.8	2006.6	363.5	185.3	158.9	145.6	134.8	128.8	123.9	121.6	120.3
52.5°	3232.0	2269.1	322.6	170.9	145.6	134.8	125.2	120.3	114.3	108.4	107.1
54°	3571.5	2539.9	320.2	158.9	134.8	127.6	119.2	116.7	109.5	101.1	98.7
55°	3724.3	2697.6	328.6	149.2	127.6	122.8	115.6	113.1	105.9	96.3	95.1
57.5°	3850.7	2759.0	323.8	123.9	115.6	114.3	108.4	104.7	96.3	83.1	80.6
60°	3099.6	2086.1	232.3	109.5	105.9	103.5	98.7	96.3	85.5	71.0	69.8
62.5°	1958.4	1200.1	148.1	96.3	92.7	89.1	83.1	80.6	71.0	56.6	52.9
65°	834.2	497.1	99.9	85.5	79.5	73.4	68.6	65.0	56.6	42.1	41.0
67.5°	216.7	177.0	83.1	74.6	66.2	57.8	54.2	48.2	38.5	28.9	27.7
70°	97.5	89.1	69.8	62.6	52.9	44.6	39.7	33.7	25.3	19.3	18.1
72.5°	57.8	56.6	52.9	47.0	39.7	33.7	28.9	22.9	16.8	10.8	10.8
75°	36.1	34.9	36.1	32.5	27.7	25.3	21.7	15.7	9.6	4.8	4.8
77.5°	21.7	21.7	21.7	20.4	19.3	19.3	15.7	9.6	4.8	1.2	1.2
80°	16.8	16.8	18.1	16.8	16.8	16.8	13.2	7.2	2.4	0.0	0.0
82.5°	16.8	18.1	20.4	19.3	16.8	14.4	12.1	7.2	2.4	0.0	0.0
85°	4.8	3.6	6.0	8.5	12.1	10.8	8.5	6.0	2.4	0.0	0.0
87.5°	2.4	2.4	2.4	2.4	1.2	1.2	1.2	1.2	1.2	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)