

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: P382899

Luminaire Tested: **GLEON-SA2C-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2C-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13484.1 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

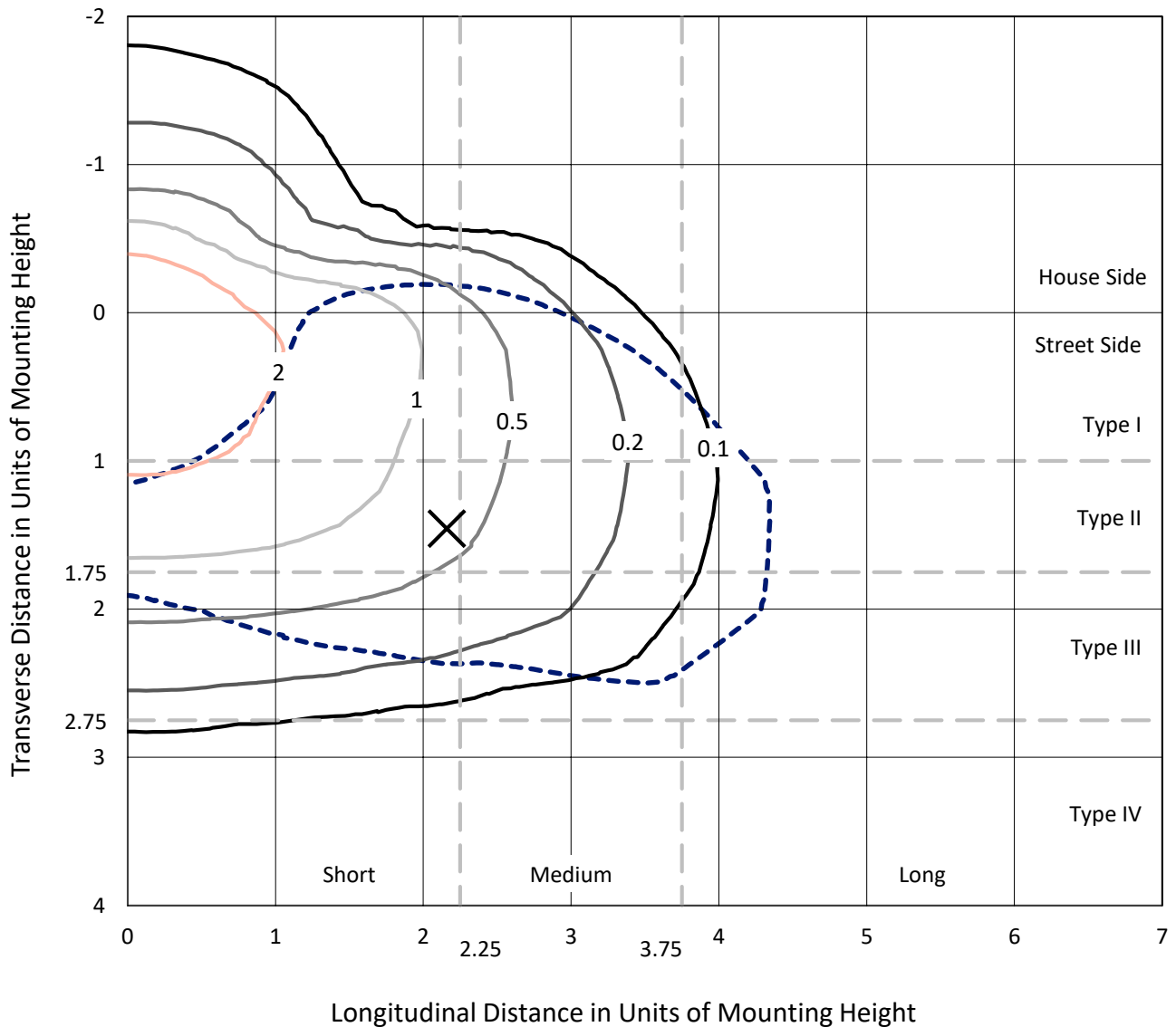
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

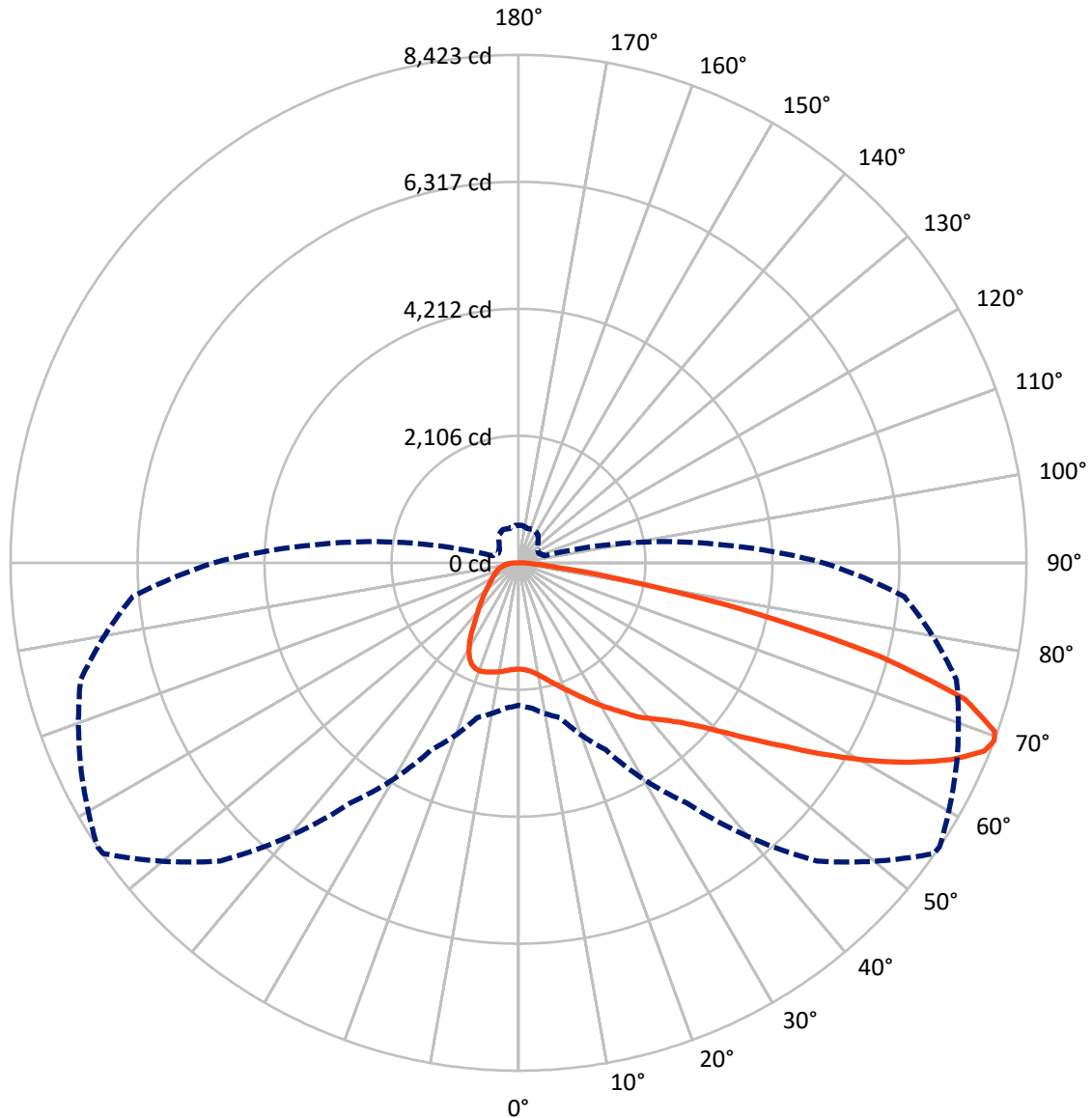
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3002.9	0.0	3002.9
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10481.2	0.0	10481.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	13484.1	0.0	13484.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.1	1.3
10°-20°	556.8	4.1
20°-30°	971.9	7.2
30°-40°	1396.1	10.4
40°-50°	1932.1	14.3
50°-60°	2830.7	21.0
60°-70°	3451.2	25.6
70°-80°	1908.1	14.2
80°-90°	264.3	2.0
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°	13484.1	100.0
0°-180°	13484.1	100.0

Coefficient of Utilization

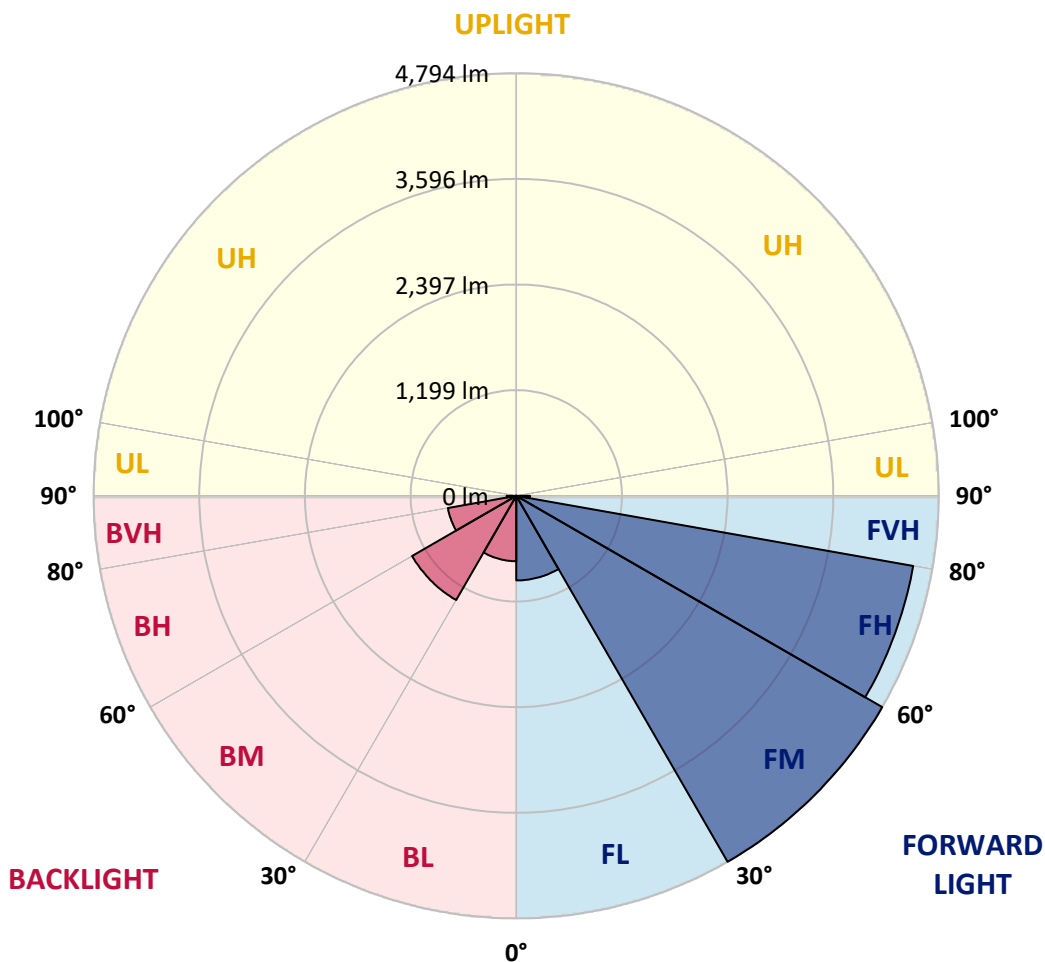


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	959.7	7.1			
FM (30°-60°)	4794.1	35.6			
FH (60°-80°)	4571.8	33.9			G2/5000
FVH (80°-90°)	155.7	1.2			G2/225
BL (0°-30°)	742.1	5.5	B2/1000		
BM (30°-60°)	1364.8	10.1	B2/2500		
BH (60°-80°)	787.5	5.8	B2/1000		G2/1000
BVH (80°-90°)	108.6	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9
2.5°	1774.0	1775.9	1774.5	1778.1	1774.0	1776.7	1774.5	1774.5	1773.1	1768.9	1764.3
5°	1801.9	1805.6	1803.3	1807.0	1801.9	1802.8	1798.6	1798.6	1794.4	1785.6	1776.3
7.5°	1845.5	1849.7	1847.8	1851.5	1844.7	1844.7	1839.1	1838.6	1830.2	1815.8	1805.2
10°	1897.6	1903.2	1901.3	1906.9	1901.3	1903.2	1897.6	1897.6	1886.4	1866.0	1852.5
12.5°	1973.3	1980.3	1975.2	1974.7	1972.4	1976.1	1971.4	1970.5	1960.3	1932.4	1913.9
15°	2074.6	2082.0	2071.3	2070.4	2057.3	2055.9	2055.9	2054.5	2048.1	2014.7	1983.9
17.5°	2191.1	2193.4	2184.2	2169.3	2152.6	2141.9	2140.5	2144.2	2144.2	2105.2	2056.4
20°	2305.4	2309.6	2302.1	2285.5	2264.0	2248.3	2237.1	2244.6	2244.1	2197.6	2128.4
22.5°	2429.9	2439.6	2428.5	2407.1	2382.1	2364.4	2344.9	2351.4	2351.9	2294.7	2199.0
25°	2591.1	2582.2	2575.3	2545.1	2509.3	2491.2	2473.1	2479.6	2477.7	2399.2	2272.0
27.5°	2733.7	2735.6	2726.3	2694.2	2652.9	2612.9	2612.0	2616.2	2609.2	2507.9	2340.7
30°	2899.5	2900.5	2887.4	2858.6	2813.6	2762.0	2749.9	2756.9	2742.0	2611.0	2413.2
32.5°	3064.4	3069.1	3054.6	3019.8	2983.6	2920.9	2896.7	2901.4	2864.2	2716.5	2488.0
35°	3208.9	3215.4	3210.8	3187.6	3148.1	3094.1	3065.4	3062.6	3016.6	2845.6	2586.9
37.5°	3356.2	3362.2	3357.1	3337.5	3321.8	3264.6	3249.3	3249.3	3169.4	2977.6	2712.8
40°	3507.6	3516.9	3510.8	3483.9	3470.4	3444.4	3407.7	3398.8	3312.5	3136.0	2918.1
42.5°	3648.3	3660.4	3684.6	3668.8	3641.3	3645.1	3571.2	3566.6	3503.4	3370.1	3175.9
45°	3848.0	3865.7	3906.6	3894.5	3888.9	3868.5	3780.7	3776.5	3752.4	3685.0	3496.0
47.5°	4065.9	4090.1	4163.9	4166.3	4226.2	4187.7	4068.3	4053.8	4059.4	4062.2	3886.6
50°	4266.6	4293.1	4414.3	4471.4	4612.7	4621.0	4430.2	4417.1	4438.9	4503.0	4341.9
52.5°	4426.9	4460.3	4611.7	4788.2	5030.3	5099.0	4875.6	4865.8	4882.1	4992.6	4856.5
55°	4544.4	4580.6	4745.5	5067.0	5453.5	5574.7	5388.4	5379.1	5389.4	5530.1	5416.3
57.5°	4571.8	4580.6	4819.8	5254.7	5810.7	6101.9	6016.0	5997.4	5947.3	6069.9	6034.1
60°	4443.1	4478.4	4758.5	5320.6	6087.0	6621.7	6671.9	6648.6	6507.9	6608.2	6579.4
62.5°	4182.1	4245.2	4529.6	5220.3	6195.3	7046.3	7315.3	7287.4	7044.9	7109.9	6971.5
65°	3755.6	3782.5	4081.3	4874.2	6057.8	7318.1	7888.9	7875.0	7569.8	7468.0	7044.0
67.5°	2992.9	3043.6	3297.1	4151.0	5495.3	7286.0	8332.5	8331.1	7912.7	7601.0	6787.1
69°	2364.4	2416.9	2658.5	3419.3	4862.6	6992.8	8406.8	8423.1	8009.3	7520.1	6420.1
70°	1885.0	1945.9	2111.7	2880.0	4301.0	6606.3	8345.1	8374.3	7990.6	7386.8	6081.5
72.5°	802.2	851.4	969.5	1484.6	2621.3	4933.2	7630.2	7740.8	7560.1	6760.6	5026.1
75°	350.3	365.5	419.0	605.2	1163.6	2684.9	5977.5	6181.8	6464.3	5714.5	3744.0
77.5°	256.5	262.9	292.2	355.4	522.1	1014.1	3843.9	3962.8	4661.9	4158.3	2296.5
80°	198.3	203.0	225.7	261.0	340.9	410.2	1753.1	1855.3	2621.3	2135.9	956.4
82.5°	157.9	161.2	177.0	192.3	235.5	248.5	582.0	645.7	967.6	589.9	253.2
85°	146.8	150.5	156.0	140.3	151.0	145.9	251.8	263.3	292.2	231.8	105.9
87.5°	66.4	78.5	154.7	109.2	80.4	64.1	103.1	107.8	121.2	121.7	46.9
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°	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9	1762.9
2.5°	1767.1	1765.7	1768.0	1762.4	1769.4	1768.9	1766.6	1767.5	1772.2	1771.7	1772.2
5°	1777.7	1776.7	1779.5	1775.4	1783.7	1786.5	1787.0	1791.2	1796.3	1797.7	1797.7
7.5°	1804.7	1804.7	1806.1	1800.5	1806.1	1805.6	1803.3	1807.5	1812.5	1813.0	1812.5
10°	1851.1	1851.5	1849.2	1834.9	1830.2	1817.6	1806.1	1806.6	1813.0	1818.1	1819.5
12.5°	1909.7	1907.8	1897.6	1871.1	1851.5	1826.0	1813.9	1813.4	1820.0	1824.2	1825.6
15°	1976.6	1971.4	1945.0	1901.8	1867.4	1842.3	1822.8	1818.1	1814.4	1809.8	1810.3
17.5°	2039.7	2028.1	1983.9	1924.0	1887.8	1854.3	1816.7	1786.5	1765.7	1753.5	1749.8
20°	2103.8	2081.1	2017.5	1945.0	1899.0	1838.1	1765.7	1704.4	1666.3	1648.6	1645.3
22.5°	2162.3	2125.6	2048.6	1966.8	1890.1	1783.3	1669.5	1580.3	1527.4	1503.6	1505.5
25°	2219.5	2168.4	2081.1	1982.1	1845.5	1686.7	1535.7	1426.1	1364.7	1338.3	1337.3
27.5°	2269.6	2211.6	2116.4	1969.6	1762.4	1549.2	1377.3	1270.4	1219.4	1196.6	1192.8
30°	2327.3	2265.9	2163.2	1921.7	1640.6	1390.3	1222.7	1147.4	1111.1	1088.3	1084.2
32.5°	2397.3	2339.8	2201.8	1834.9	1485.1	1224.4	1101.8	1049.4	1016.4	990.8	986.1
35°	2499.6	2437.3	2211.6	1710.3	1314.1	1093.5	1013.2	959.2	914.6	881.6	878.4
37.5°	2627.8	2559.5	2189.3	1549.2	1148.3	1008.5	939.3	872.9	814.7	768.3	760.9
40°	2812.6	2709.5	2127.5	1363.3	1026.1	943.0	867.3	791.5	719.5	665.2	654.5
42.5°	3034.7	2885.6	2032.7	1178.5	936.5	876.6	795.7	701.9	633.2	594.6	589.0
45°	3317.1	3068.6	1901.3	1016.9	848.2	810.2	718.6	632.2	589.5	561.2	556.5
47.5°	3639.5	3273.9	1763.3	885.3	773.5	747.8	656.8	601.1	567.2	544.9	540.7
50°	4035.7	3505.7	1617.0	777.6	698.2	673.0	627.6	583.9	557.0	539.7	535.5
52.5°	4482.6	3767.3	1511.5	692.6	636.0	617.8	612.2	574.6	552.8	539.7	535.5
55°	4963.8	4033.4	1397.7	621.1	582.0	587.2	602.1	575.5	560.7	544.9	538.8
57.5°	5445.5	4308.4	1270.9	560.7	539.3	564.4	595.1	577.4	564.9	549.5	543.9
60°	5826.5	4482.6	1074.4	510.0	505.4	539.3	578.3	563.5	547.2	547.7	546.7
62.5°	6004.4	4473.3	857.5	465.0	471.5	505.4	551.4	541.6	528.2	546.3	547.7
65°	5904.5	4250.4	667.5	424.1	435.2	470.1	523.5	531.0	535.5	570.4	575.0
67.5°	5485.5	3816.5	517.0	388.4	402.2	445.9	526.3	578.3	584.4	621.1	620.6
69°	5052.2	3409.6	449.2	369.7	386.0	452.0	562.6	608.5	585.8	624.8	619.2
70°	4688.9	3087.6	413.0	357.2	378.6	462.7	586.7	608.0	578.8	612.2	603.0
72.5°	3611.1	2221.4	350.3	334.0	353.5	442.7	593.7	594.6	562.6	569.0	553.2
75°	2476.8	1403.7	305.6	302.4	315.4	399.0	571.3	568.2	520.3	511.0	498.0
77.5°	1365.6	713.0	259.6	272.2	281.0	353.5	519.3	514.7	475.2	455.7	451.1
80°	526.8	312.2	219.3	242.0	247.6	306.1	455.2	451.1	418.1	393.0	386.0
82.5°	198.8	163.5	181.2	209.5	207.6	252.7	385.6	383.2	351.2	314.5	303.3
85°	91.9	98.0	143.6	172.8	159.3	187.2	308.4	312.6	273.6	229.9	229.9
87.5°	39.0	54.8	101.7	130.5	107.3	126.3	226.2	216.0	198.3	137.5	129.1
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)