

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: P646807

Luminaire Tested: **GALN-SA2C-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646807
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11328.4 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

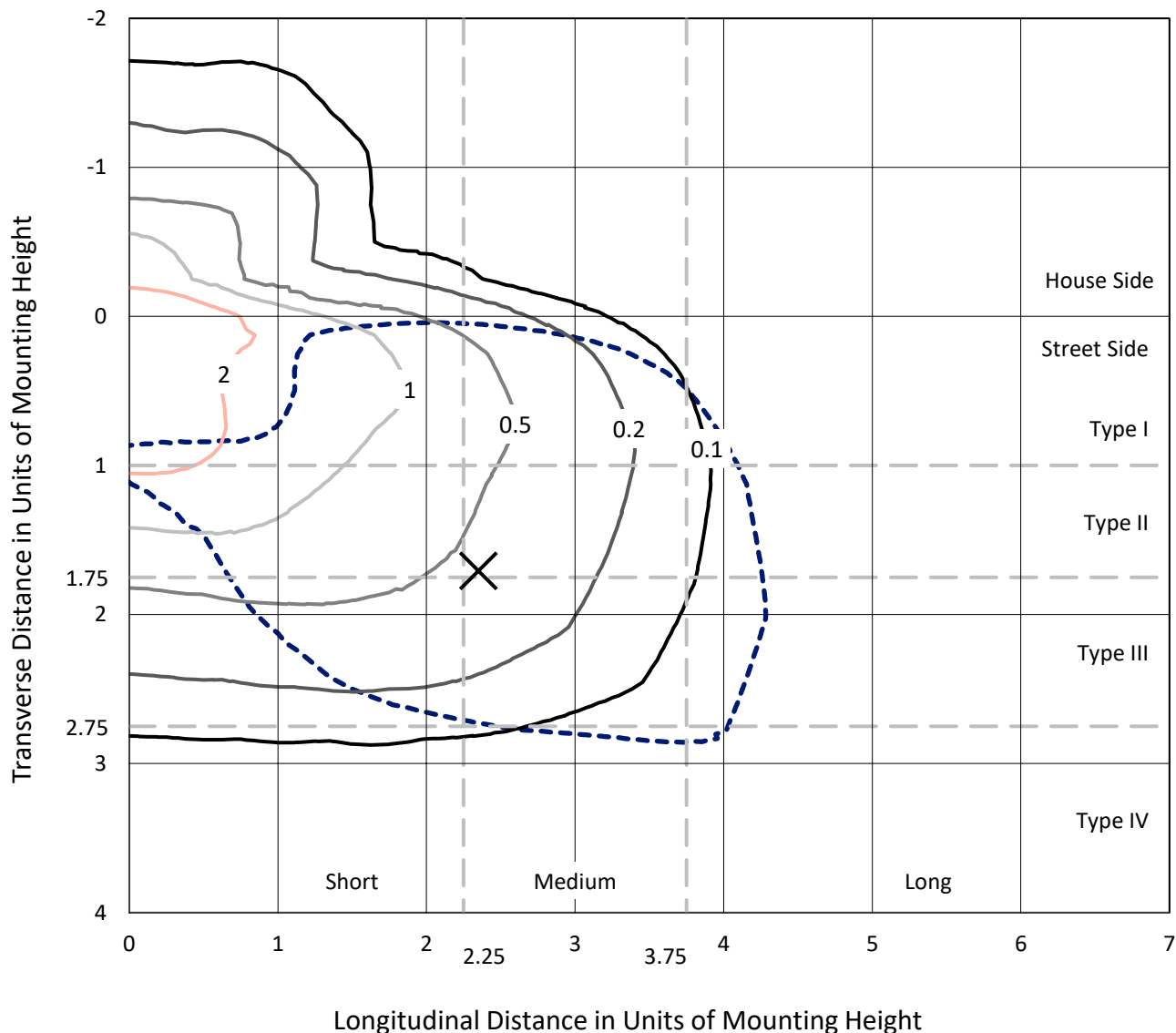
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

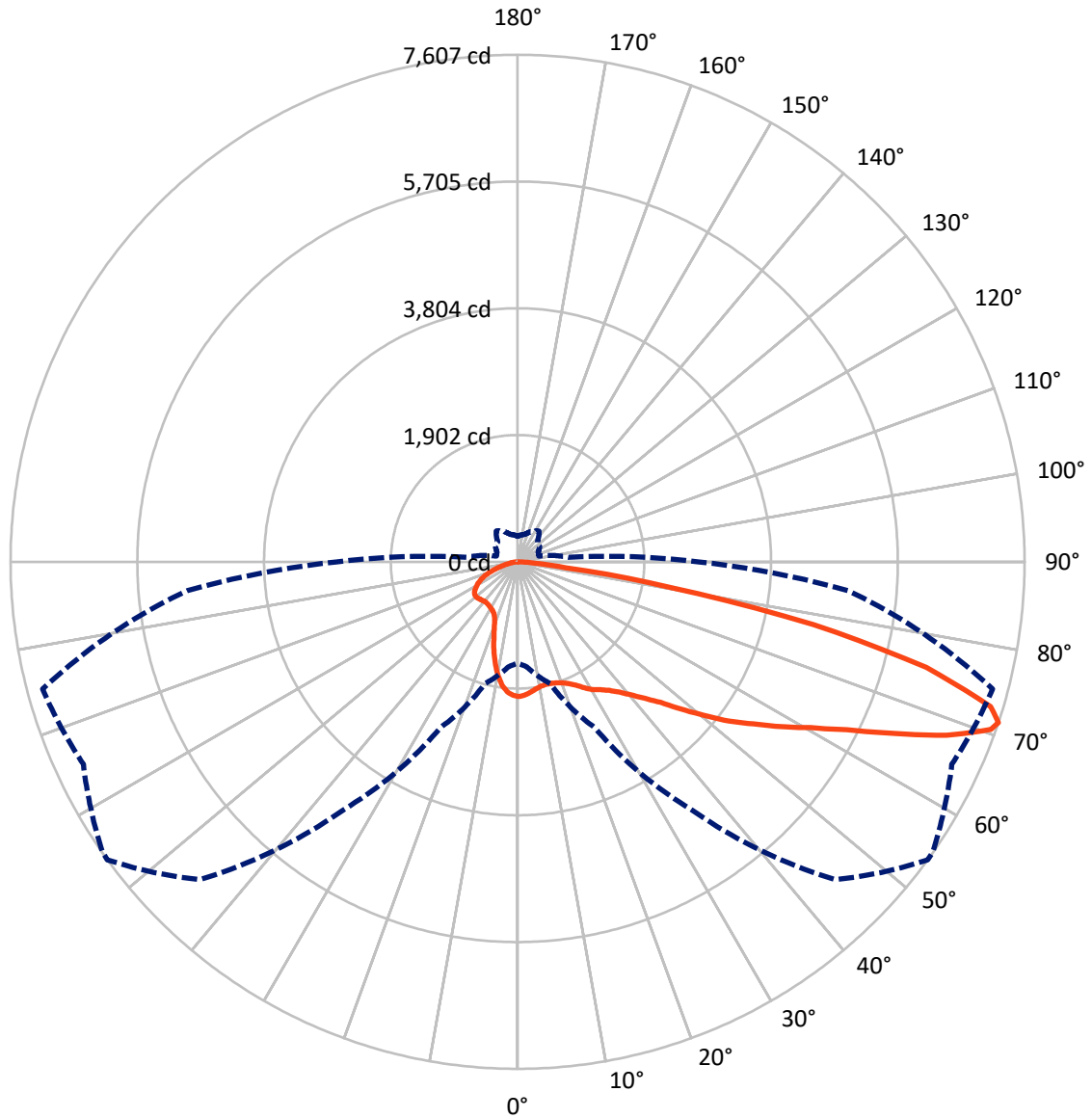
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2045.3	0.0	2045.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9283.2	0.0	9283.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	11328.4	0.0	11328.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	1.6
10°-20°	475.6	4.2
20°-30°	791.9	7.0
30°-40°	1170.9	10.3
40°-50°	1649.3	14.6
50°-60°	2208.5	19.5
60°-70°	2783.6	24.6
70°-80°	1901.2	16.8
80°-90°	167.2	1.5
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°	11328.4	100.0
0°-180°	11328.4	100.0

Coefficient of Utilization

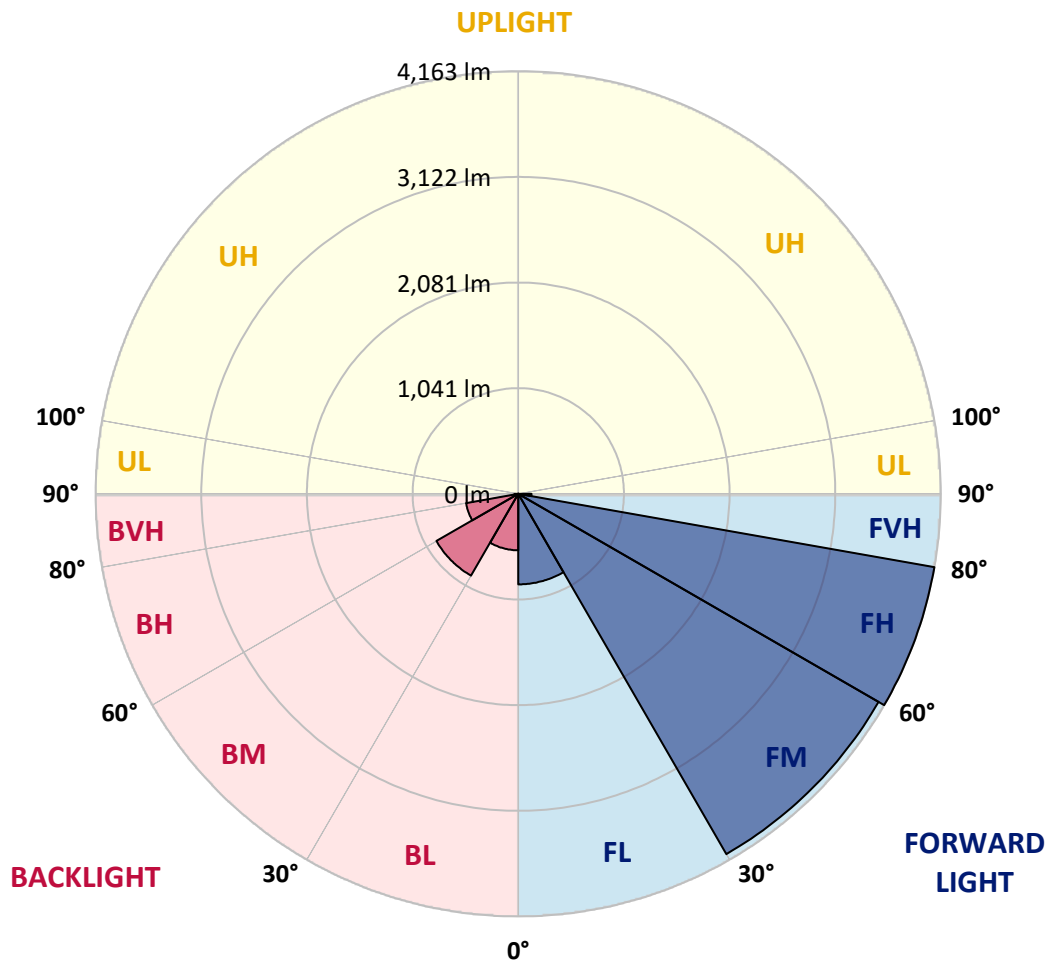


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	891.7	7.9			
FM (30°-60°)	4098.2	36.2			
FH (60°-80°)	4162.5	36.7			G2/5000
FVH (80°-90°)	130.7	1.2			G2/225
BL (0°-30°)	555.9	4.9	B2/1000		
BM (30°-60°)	930.6	8.2	B1/1000		
BH (60°-80°)	522.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	36.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2
2.5°	1952.6	1961.8	1964.2	1970.3	1983.3	1993.6	2004.0	2002.8	2017.5	2023.6	2029.1
5°	1865.7	1868.2	1877.4	1889.6	1912.2	1941.0	1969.2	1969.8	2005.9	2034.6	2048.7
7.5°	1802.1	1810.1	1816.2	1829.0	1852.9	1884.1	1928.8	1932.4	1996.6	2053.6	2083.6
10°	1760.5	1769.7	1776.4	1792.3	1816.2	1851.0	1899.4	1906.1	1989.9	2083.6	2136.2
12.5°	1722.5	1731.8	1737.9	1758.6	1789.9	1832.7	1887.2	1895.1	1992.4	2118.5	2193.7
15°	1745.8	1753.1	1750.7	1756.8	1777.6	1826.6	1892.0	1900.0	2001.6	2152.1	2250.7
17.5°	1849.2	1855.3	1835.1	1811.9	1802.1	1838.2	1907.3	1915.9	2019.9	2187.0	2308.8
20°	2001.6	2018.1	1974.0	1922.0	1874.9	1879.8	1939.2	1948.3	2045.7	2221.8	2368.1
22.5°	2199.8	2212.1	2158.3	2072.6	1985.7	1941.0	1986.9	1992.4	2084.2	2267.2	2433.0
25°	2433.0	2440.3	2365.7	2255.5	2130.1	2045.7	2052.4	2062.2	2147.8	2318.5	2490.5
27.5°	2659.4	2682.6	2596.3	2461.8	2296.5	2155.8	2142.3	2148.5	2217.0	2347.3	2530.3
30°	2928.0	2926.1	2835.0	2679.0	2467.2	2275.7	2227.4	2226.1	2254.3	2361.4	2559.0
32.5°	3142.2	3167.3	3078.0	2907.8	2662.4	2400.0	2286.1	2283.7	2283.1	2385.9	2601.9
35°	3385.8	3389.4	3307.4	3136.1	2873.5	2555.9	2368.1	2355.9	2341.8	2438.5	2660.0
37.5°	3603.6	3620.7	3545.4	3353.3	3081.0	2718.1	2480.7	2472.8	2429.9	2529.6	2753.0
40°	3773.7	3786.5	3741.3	3558.3	3285.4	2893.1	2623.9	2609.2	2557.2	2679.0	2877.2
42.5°	3829.3	3855.7	3873.4	3783.5	3520.4	3100.6	2800.2	2781.8	2742.0	2905.4	3020.4
45°	3833.6	3875.3	3968.9	3973.2	3756.5	3349.0	3005.7	2992.9	2989.8	3195.4	3221.7
47.5°	3801.2	3843.4	4000.7	4085.8	3967.1	3599.9	3302.5	3282.3	3284.1	3554.0	3447.5
50°	3722.9	3773.0	3964.0	4158.0	4131.7	3860.6	3615.8	3609.1	3647.1	3963.4	3681.9
52.5°	3575.4	3636.0	3926.0	4203.2	4254.0	4085.1	3971.9	3953.0	4049.0	4407.7	3938.3
55°	3167.3	3258.5	3787.1	4228.4	4370.3	4299.9	4292.6	4326.9	4454.2	4892.3	4220.4
57.5°	2954.3	3022.8	3485.4	4232.7	4517.2	4549.6	4667.1	4675.7	4898.4	5406.9	4539.2
60°	2838.1	2898.7	3320.2	4204.5	4722.2	4858.6	5050.1	5080.7	5332.2	5964.3	4869.6
62.5°	2736.5	2788.5	3221.1	4107.2	4953.5	5317.0	5546.4	5561.1	5824.8	6579.9	5195.8
65°	2497.2	2556.6	3021.7	4009.9	5152.9	5889.7	6204.8	6187.7	6349.3	7111.0	5400.2
67.5°	2174.8	2250.0	2649.0	3673.9	5251.5	6515.7	6946.5	6925.1	6866.9	7459.2	5458.9
70°	1762.9	1803.3	2172.3	3093.2	4858.0	6844.3	7532.1	7509.4	7187.5	7505.1	5181.1
71°	1516.9	1579.9	1891.4	2747.5	4530.7	6743.9	7607.3	7601.2	7188.2	7378.5	4971.8
72.5°	1184.1	1222.6	1498.0	2128.9	3850.8	6173.6	7421.4	7444.6	7032.1	7026.6	4540.5
75°	749.0	766.1	939.9	1253.2	2112.9	4372.1	6335.2	6398.2	6244.0	5751.4	3376.5
77.5°	435.0	457.1	563.0	738.6	913.0	2373.0	4533.1	4601.6	4338.5	3166.7	1382.3
80°	253.3	277.8	370.8	428.9	419.1	880.6	2308.1	2425.0	1878.6	799.8	388.0
82.5°	140.7	157.2	260.7	261.3	223.3	287.6	726.3	760.0	536.0	322.5	158.5
85°	102.2	115.6	168.3	152.4	107.1	123.6	252.8	265.0	216.7	135.9	51.4
87.5°	36.1	51.4	92.4	73.4	29.4	25.7	72.8	59.4	55.0	38.0	11.6
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°	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2	2021.2
2.5°	2032.2	2033.4	2027.3	2016.3	2005.3	1991.2	1975.3	1963.1	1957.5	1956.9	1956.3
5°	2054.2	2057.3	2034.0	1999.8	1961.8	1915.3	1875.5	1830.3	1818.6	1800.3	1805.8
7.5°	2089.7	2087.9	2042.0	1969.2	1880.5	1781.9	1698.7	1650.3	1600.1	1586.1	1586.7
10°	2140.5	2128.9	2042.0	1906.8	1758.6	1612.4	1496.2	1422.7	1382.9	1349.9	1337.7
12.5°	2194.4	2165.0	2022.4	1819.2	1602.0	1422.7	1297.9	1198.8	1173.0	1146.2	1146.7
15°	2245.7	2196.8	1983.8	1696.2	1433.1	1220.1	1099.0	1039.7	1031.7	1034.7	1034.1
17.5°	2292.2	2219.4	1925.1	1559.2	1236.0	1046.4	982.1	986.4	1007.8	1023.1	1024.9
20°	2339.4	2232.9	1837.6	1375.6	1050.1	941.2	943.6	977.3	1009.7	1030.5	1033.6
22.5°	2384.0	2239.0	1734.8	1198.1	915.4	896.5	932.6	968.6	1000.5	1020.6	1023.8
25°	2413.4	2224.9	1589.2	1012.7	849.3	880.6	918.5	949.1	976.0	996.8	1001.7
27.5°	2421.3	2179.6	1408.6	862.8	818.8	865.2	900.1	922.8	943.6	963.2	966.8
30°	2417.0	2112.9	1210.4	774.7	801.0	847.5	874.5	891.0	916.0	931.3	934.4
32.5°	2410.3	2035.3	1003.6	727.6	786.3	831.0	846.9	861.6	861.0	854.9	859.1
35°	2412.8	1942.2	835.9	699.5	773.4	818.8	832.2	813.9	761.2	758.8	756.3
37.5°	2425.7	1850.5	714.1	679.9	766.7	816.9	824.3	739.8	693.3	671.9	666.4
40°	2458.7	1743.3	633.9	665.2	766.1	831.0	788.2	702.5	613.2	571.5	568.5
42.5°	2502.7	1638.1	585.0	656.0	773.4	852.4	773.4	649.9	552.6	528.1	524.4
45°	2568.2	1517.5	558.0	651.7	784.5	860.4	768.6	611.3	528.1	508.5	508.5
47.5°	2642.2	1402.5	543.4	648.6	798.6	854.9	725.1	599.1	516.5	518.9	530.6
50°	2715.7	1302.8	532.4	641.9	810.8	851.8	707.4	598.4	519.5	550.8	571.5
52.5°	2800.7	1232.4	518.9	630.9	810.8	832.2	701.9	610.7	528.1	537.3	546.5
55°	2903.5	1210.4	501.7	607.1	796.1	783.2	698.8	628.4	534.2	512.8	516.5
57.5°	3039.4	1245.8	485.2	577.1	762.5	732.5	697.6	633.4	520.1	502.4	498.7
60°	3197.3	1316.2	480.4	546.5	716.5	689.0	690.2	619.3	500.6	482.2	485.2
62.5°	3308.0	1358.4	477.3	523.2	666.4	641.3	672.5	602.1	492.0	476.1	479.1
65°	3308.0	1307.1	449.1	487.7	601.5	583.8	651.1	580.7	481.0	462.6	459.5
67.5°	3182.6	1157.1	406.3	434.5	529.9	518.3	621.1	555.0	464.5	450.4	443.0
70°	2855.8	877.5	352.4	372.1	439.3	449.8	582.6	520.1	436.9	419.8	408.7
71°	2712.0	764.3	329.8	340.2	404.5	419.8	564.2	505.4	424.7	400.2	380.6
72.5°	2434.8	643.7	295.6	299.8	345.7	373.3	525.6	477.3	401.4	366.5	344.5
75°	1849.8	470.0	238.0	235.6	255.8	296.1	444.9	425.2	351.9	304.7	291.9
77.5°	799.1	255.8	178.1	179.9	173.7	224.6	350.0	365.3	301.7	247.8	236.2
80°	242.3	147.4	121.8	124.2	116.3	150.5	246.6	286.3	242.3	192.8	176.9
82.5°	124.2	88.1	83.2	82.0	74.1	85.0	149.3	195.8	173.2	120.6	106.5
85°	53.9	47.1	41.0	39.8	34.8	30.6	53.2	97.9	91.8	67.3	64.3
87.5°	13.5	12.2	8.0	7.4	4.3	0.6	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)