

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: P650767

Luminaire Tested: **GALN-SA2C-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650767
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-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 12167.6 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

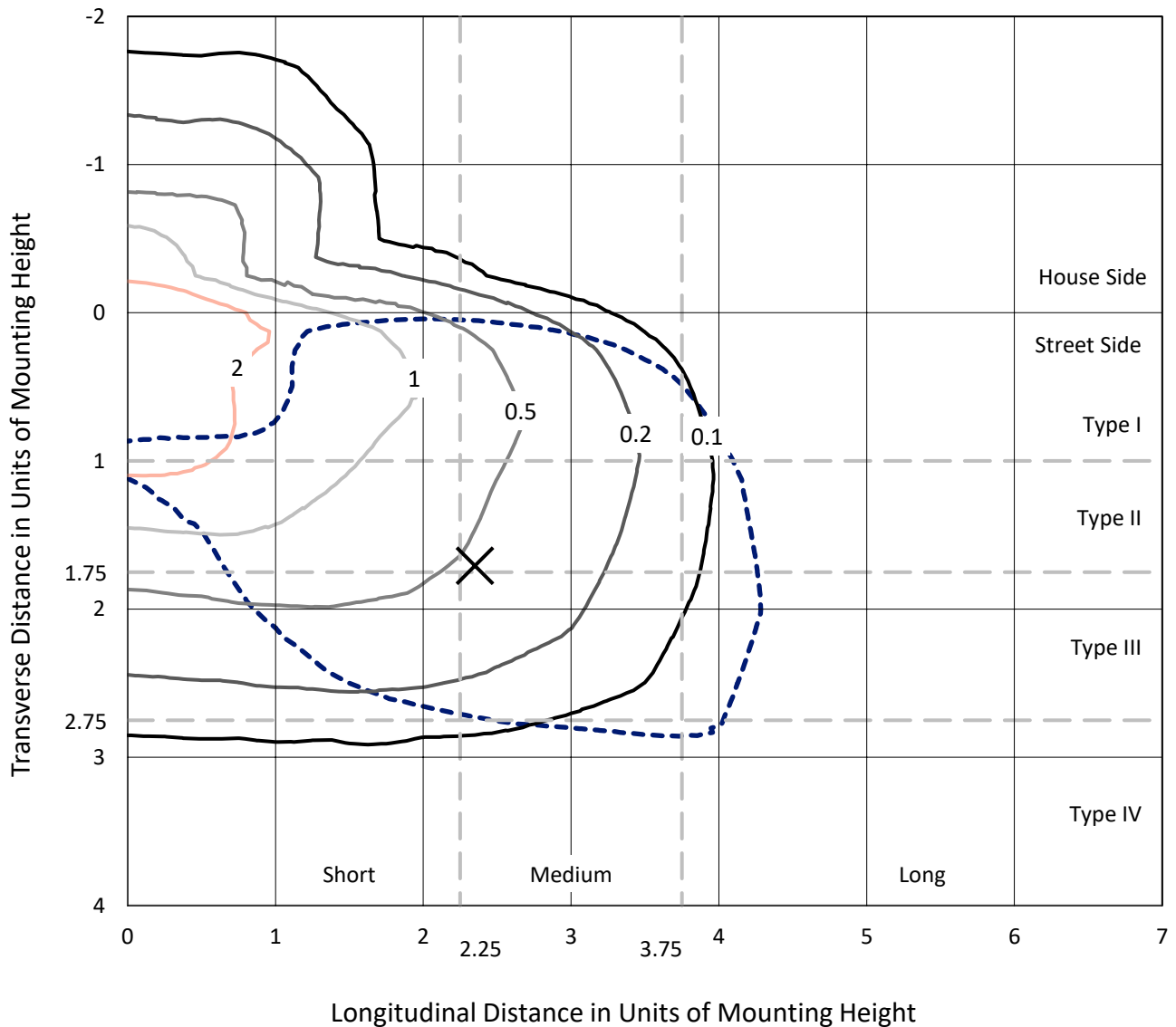
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

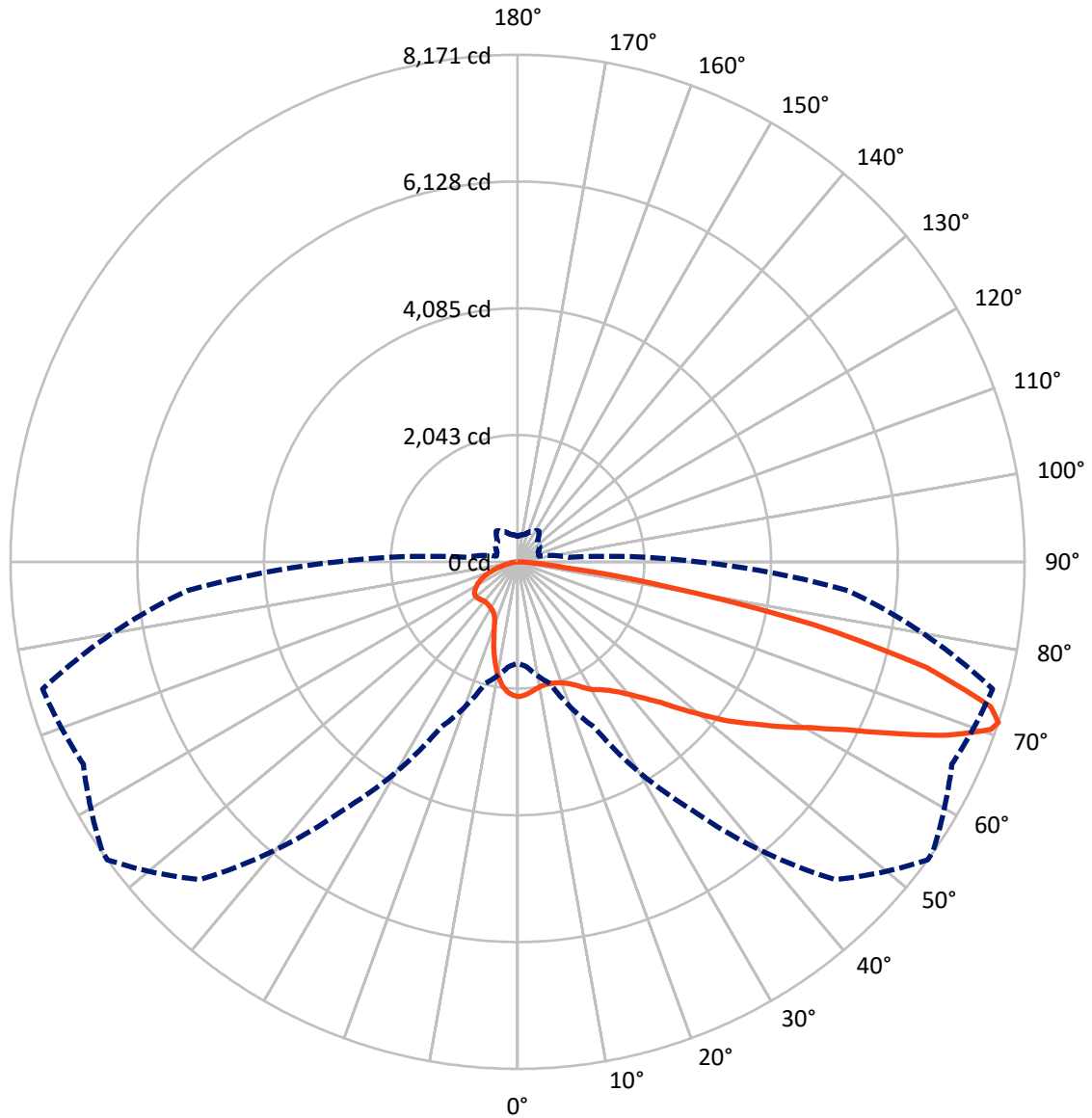
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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	2196.8	0.0	2196.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9970.8	0.0	9970.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	12167.6	0.0	12167.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	1.6
10°-20°	510.8	4.2
20°-30°	850.5	7.0
30°-40°	1257.7	10.3
40°-50°	1771.5	14.6
50°-60°	2372.1	19.5
60°-70°	2989.8	24.6
70°-80°	2042.1	16.8
80°-90°	179.6	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°	12167.6	100.0
0°-180°	12167.6	100.0

Coefficient of Utilization

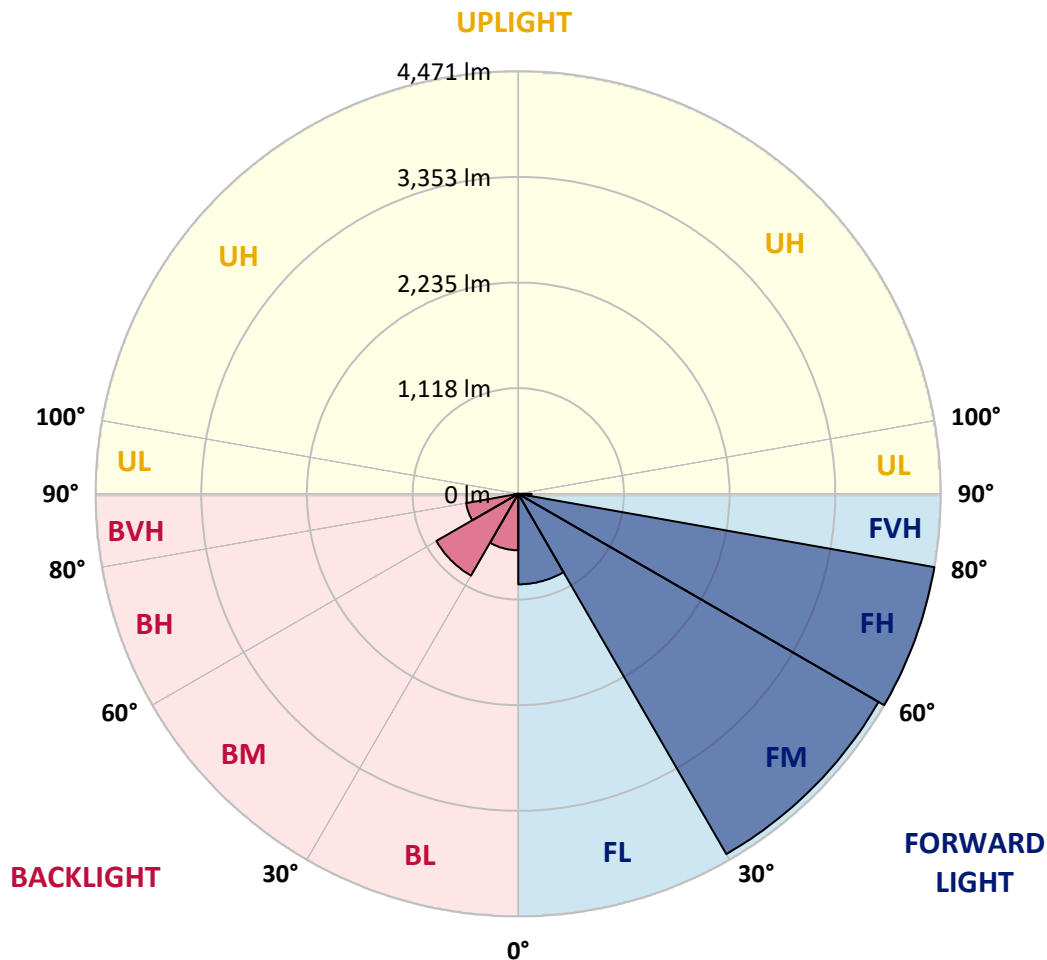


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	957.8	7.9			
FM (30°-60°)	4401.8	36.2			
FH (60°-80°)	4470.8	36.7			G2/5000
FVH (80°-90°)	140.4	1.2			G2/225
BL (0°-30°)	597.0	4.9	B2/1000		
BM (30°-60°)	999.5	8.2	B1/1000		
BH (60°-80°)	561.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	39.2	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°	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9
2.5°	2097.3	2107.1	2109.7	2116.3	2130.2	2141.3	2152.5	2151.2	2166.9	2173.5	2179.5
5°	2003.9	2006.5	2016.5	2029.6	2053.9	2084.8	2115.0	2115.7	2154.5	2185.3	2200.5
7.5°	1935.6	1944.1	1950.7	1964.5	1990.1	2023.6	2071.6	2075.6	2144.5	2205.7	2237.9
10°	1890.9	1900.7	1908.0	1925.0	1950.7	1988.1	2040.1	2047.3	2137.3	2237.9	2294.4
12.5°	1850.1	1860.0	1866.6	1888.9	1922.4	1968.4	2027.0	2035.5	2140.0	2275.4	2356.2
15°	1875.1	1883.0	1880.4	1887.0	1909.3	1961.9	2032.2	2040.8	2149.8	2311.5	2417.4
17.5°	1986.2	1992.7	1971.1	1946.1	1935.6	1974.3	2048.6	2057.8	2169.5	2349.0	2479.8
20°	2149.8	2167.6	2120.2	2064.4	2013.8	2019.1	2082.8	2092.7	2197.2	2386.4	2543.5
22.5°	2362.8	2375.9	2318.1	2226.1	2132.8	2084.8	2134.0	2140.0	2238.6	2435.1	2613.2
25°	2613.2	2621.1	2540.9	2422.6	2287.9	2197.2	2204.4	2214.9	2306.9	2490.3	2675.0
27.5°	2856.4	2881.4	2788.7	2644.1	2466.7	2315.4	2301.0	2307.6	2381.2	2521.1	2717.7
30°	3144.9	3142.9	3045.0	2877.4	2650.0	2444.3	2392.4	2391.0	2421.3	2536.3	2748.6
32.5°	3374.9	3401.9	3306.0	3123.2	2859.7	2577.7	2455.5	2452.9	2452.2	2562.6	2794.6
35°	3636.6	3640.4	3552.4	3368.4	3086.4	2745.3	2543.5	2530.4	2515.3	2619.1	2857.0
37.5°	3870.5	3889.0	3808.0	3601.7	3309.3	2919.4	2664.5	2656.0	2609.9	2717.0	2957.0
40°	4053.2	4067.0	4018.4	3821.8	3528.8	3107.4	2818.3	2802.5	2746.6	2877.4	3090.3
42.5°	4113.0	4141.3	4160.3	4063.7	3781.1	3330.3	3007.6	2987.8	2945.1	3120.6	3244.2
45°	4117.6	4162.4	4262.9	4267.5	4034.8	3597.1	3228.3	3214.6	3211.3	3432.1	3460.4
47.5°	4082.8	4128.1	4297.1	4388.4	4260.9	3866.6	3547.2	3525.5	3527.4	3817.3	3702.9
50°	3998.7	4052.5	4257.6	4466.0	4437.7	4146.6	3883.7	3876.4	3917.2	4257.0	3954.6
52.5°	3840.3	3905.4	4216.9	4514.6	4569.2	4387.7	4266.1	4245.8	4349.0	4734.2	4230.1
55°	3401.9	3499.8	4067.7	4541.6	4694.0	4618.4	4610.5	4647.4	4784.1	5254.7	4533.0
57.5°	3173.2	3246.8	3743.6	4546.2	4851.8	4886.6	5012.8	5022.0	5261.2	5807.4	4875.4
60°	3048.3	3113.4	3566.2	4515.9	5072.0	5218.5	5424.2	5457.1	5727.2	6406.1	5230.3
62.5°	2939.2	2995.1	3459.7	4411.5	5320.4	5710.8	5957.2	5973.0	6256.3	7067.3	5580.6
65°	2682.2	2745.9	3245.5	4306.9	5534.6	6326.0	6664.4	6646.1	6819.6	7637.8	5800.2
67.5°	2335.9	2416.7	2845.2	3946.1	5640.5	6998.3	7461.0	7438.1	7375.6	8011.8	5863.3
70°	1893.5	1936.9	2333.2	3322.4	5217.9	7351.3	8090.0	8065.7	7720.0	8061.1	5564.9
71°	1629.3	1697.0	2031.5	2951.0	4866.3	7243.4	8170.8	8164.3	7720.6	7925.1	5340.1
72.5°	1271.8	1313.1	1608.9	2286.6	4136.0	6630.9	7971.1	7996.1	7553.0	7547.1	4876.8
75°	804.5	822.8	1009.5	1346.0	2269.4	4696.0	6804.4	6872.1	6706.6	6177.4	3626.6
77.5°	467.3	491.0	604.7	793.3	980.6	2548.8	4868.9	4942.5	4659.9	3401.3	1484.7
80°	272.1	298.4	398.3	460.7	450.2	945.8	2479.1	2604.7	2017.7	859.0	416.7
82.5°	151.1	168.9	280.0	280.6	239.9	308.9	780.1	816.3	575.7	346.4	170.2
85°	109.8	124.2	180.7	163.7	115.0	132.8	271.5	284.6	232.7	145.9	55.2
87.5°	38.8	55.2	99.2	78.9	31.5	27.6	78.2	63.7	59.1	40.8	12.4
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°	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9	2170.9
2.5°	2182.7	2184.0	2177.4	2165.7	2153.8	2138.7	2121.6	2108.5	2102.5	2101.8	2101.2
5°	2206.4	2209.6	2184.7	2147.9	2107.1	2057.2	2014.4	1965.8	1953.3	1933.6	1939.5
7.5°	2244.5	2242.5	2193.2	2115.0	2019.7	1913.9	1824.5	1772.6	1718.7	1703.6	1704.2
10°	2299.0	2286.6	2193.2	2048.0	1888.9	1731.9	1607.0	1528.1	1485.4	1449.9	1436.8
12.5°	2356.9	2325.4	2172.2	1954.0	1720.7	1528.1	1394.0	1287.6	1259.9	1231.1	1231.6
15°	2412.1	2359.5	2130.8	1821.9	1539.3	1310.5	1180.4	1116.7	1108.1	1111.4	1110.7
17.5°	2462.0	2383.8	2067.7	1674.7	1327.6	1123.9	1054.9	1059.5	1082.5	1098.9	1100.9
20°	2512.7	2398.3	1973.7	1477.5	1127.9	1010.9	1013.5	1049.7	1084.5	1106.8	1110.1
22.5°	2560.6	2404.8	1863.3	1286.9	983.2	962.9	1001.6	1040.4	1074.6	1096.2	1099.6
25°	2592.1	2389.7	1706.9	1087.7	912.2	945.8	986.5	1019.4	1048.3	1070.7	1075.9
27.5°	2600.7	2341.1	1513.0	926.7	879.4	929.3	966.8	991.1	1013.5	1034.5	1038.5
30°	2596.1	2269.4	1300.0	832.1	860.3	910.3	939.2	957.0	983.9	1000.3	1003.6
32.5°	2588.9	2186.0	1077.9	781.5	844.5	892.6	909.6	925.4	924.8	918.2	922.7
35°	2591.5	2086.1	897.8	751.3	830.7	879.4	893.8	874.1	817.6	815.0	812.3
37.5°	2605.3	1987.5	767.0	730.2	823.5	877.4	885.3	794.6	744.6	721.7	715.8
40°	2640.8	1872.5	680.9	714.4	822.8	892.6	846.6	754.5	658.6	613.8	610.6
42.5°	2688.1	1759.5	628.3	704.6	830.7	915.5	830.7	698.0	593.5	567.2	563.2
45°	2758.5	1629.9	599.4	700.0	842.6	924.1	825.5	656.6	567.2	546.1	546.1
47.5°	2838.0	1506.4	583.7	696.7	857.7	918.2	778.9	643.4	554.7	557.3	569.9
50°	2916.8	1399.3	571.8	689.5	870.9	914.9	759.8	642.8	558.0	591.6	613.8
52.5°	3008.2	1323.6	557.3	677.6	870.9	893.8	753.9	655.9	567.2	577.1	586.9
55°	3118.6	1300.0	538.9	652.0	855.0	841.3	750.6	675.0	573.8	550.8	554.7
57.5°	3264.5	1338.1	521.2	619.8	819.0	786.8	749.2	680.3	558.7	539.6	535.6
60°	3434.1	1413.7	516.0	586.9	769.6	740.1	741.3	665.1	537.7	517.9	521.2
62.5°	3553.1	1459.1	512.7	562.0	715.8	688.8	722.3	646.7	528.4	511.3	514.6
65°	3553.1	1403.9	482.4	523.9	646.1	627.0	699.3	623.7	516.6	496.9	493.6
67.5°	3418.3	1242.8	436.4	466.7	569.2	556.7	667.1	596.1	498.9	483.7	475.8
70°	3067.4	942.5	378.5	399.6	471.9	483.1	625.7	558.7	469.3	450.9	439.0
71°	2912.9	820.9	354.2	365.4	434.5	450.9	605.9	542.9	456.2	429.8	408.8
72.5°	2615.2	691.4	317.5	322.0	371.3	400.9	564.6	512.7	431.2	393.7	370.0
75°	1986.9	504.8	255.7	253.1	274.8	318.1	477.9	456.7	377.9	327.3	313.5
77.5°	858.3	274.8	191.2	193.3	186.6	241.2	375.9	392.4	324.0	266.2	253.7
80°	260.3	158.4	130.8	133.4	124.9	161.6	264.8	307.6	260.3	207.1	190.0
82.5°	133.4	94.6	89.4	88.1	79.6	91.3	160.4	210.3	186.0	129.5	114.4
85°	57.9	50.6	44.1	42.7	37.4	32.9	57.2	105.1	98.6	72.3	69.0
87.5°	14.5	13.1	8.6	7.9	4.6	0.7	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)