

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: P528889

Luminaire Tested: **GALN-SA4A-730-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-730-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9719 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

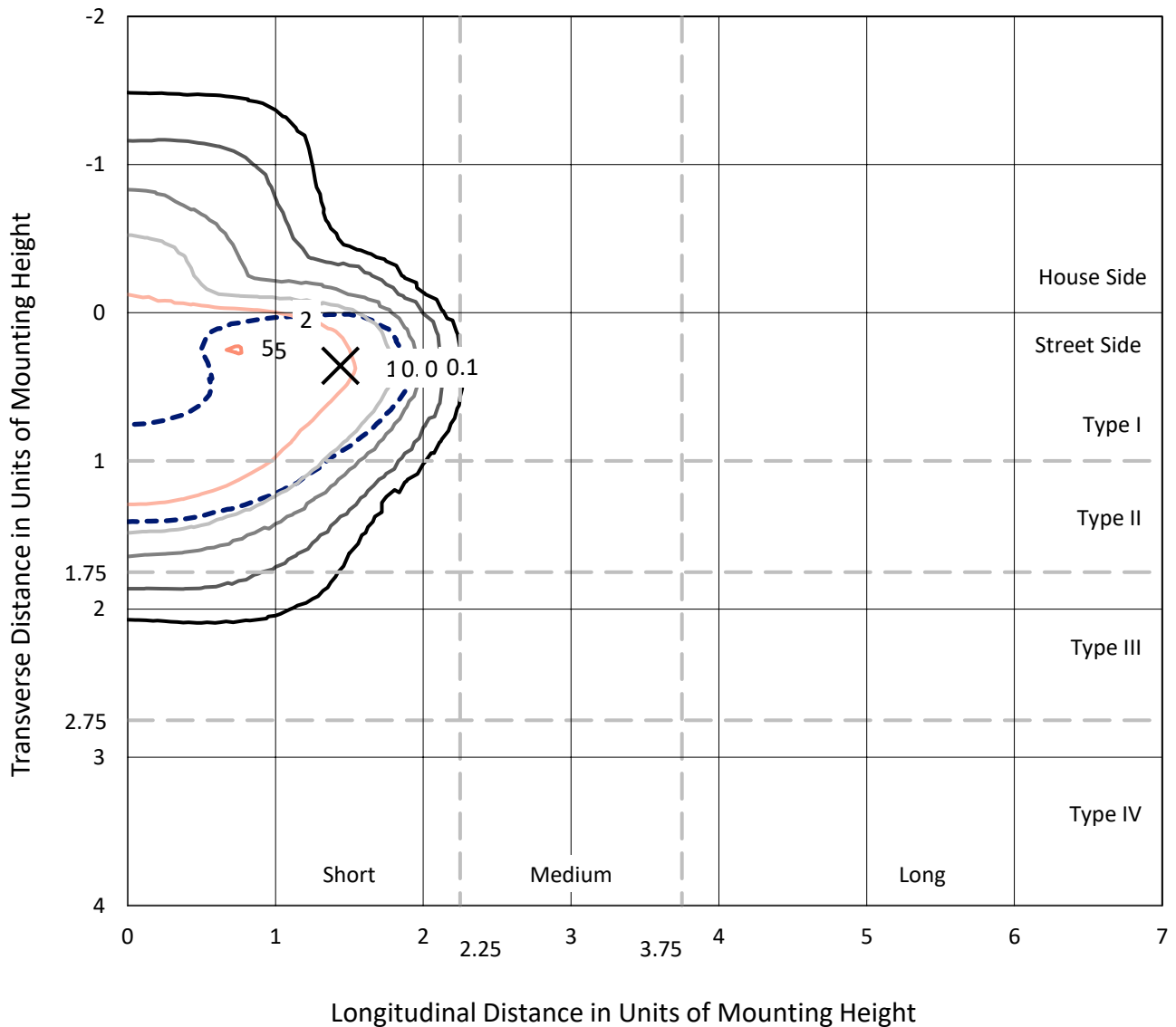
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

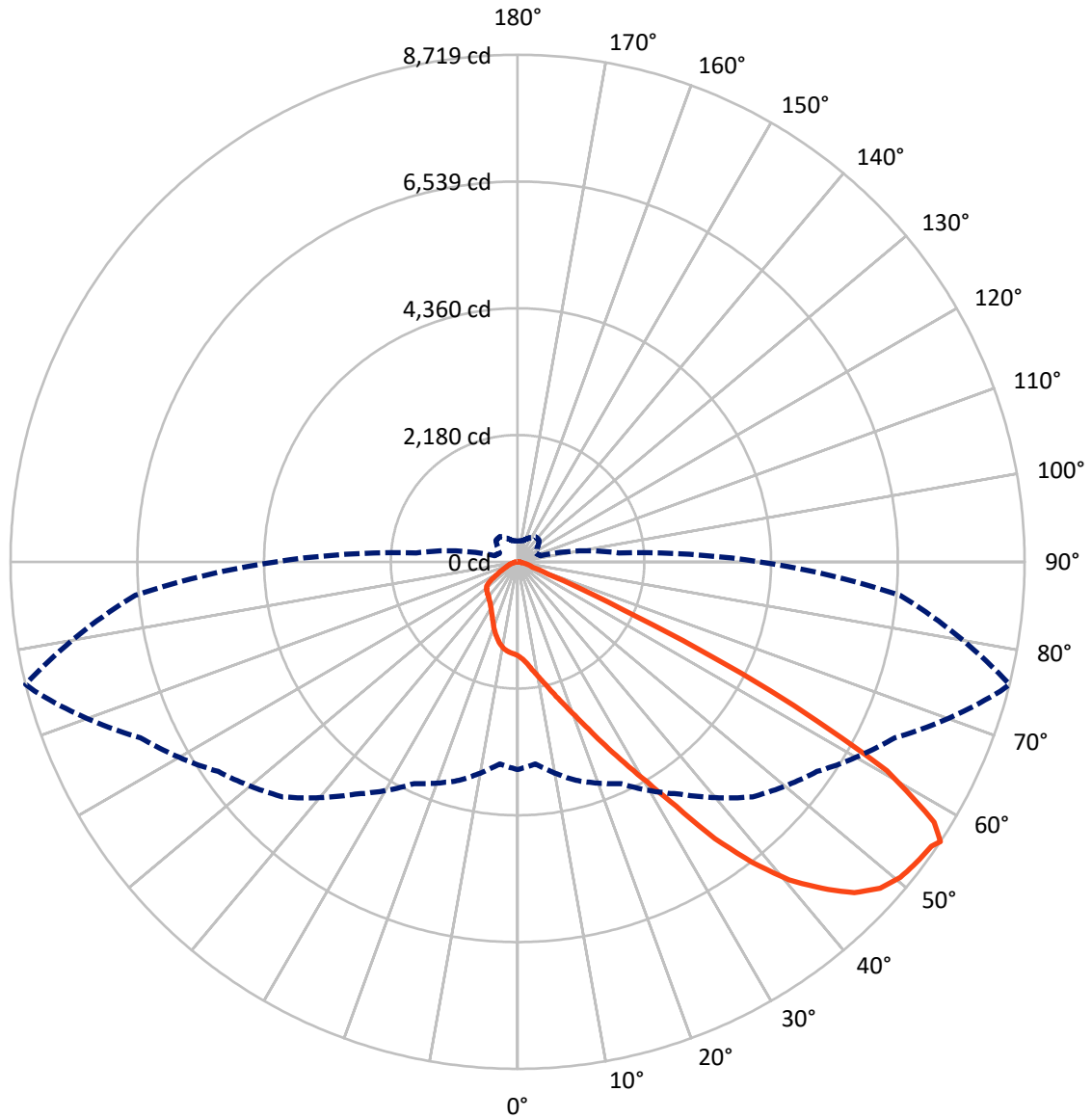
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1526.8	0.0	1526.8
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	8192.2	0.0	8192.2
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	9719.0	0.0	9719.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.0	1.7
10°-20°	523.5	5.4
20°-30°	949.3	9.8
30°-40°	1637.2	16.8
40°-50°	2659.6	27.4
50°-60°	2803.3	28.8
60°-70°	856.5	8.8
70°-80°	109.8	1.1
80°-90°	16.7	0.2
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°	9719.0	100.0
0°-180°	9719.0	100.0

**Coefficient of Utilization**

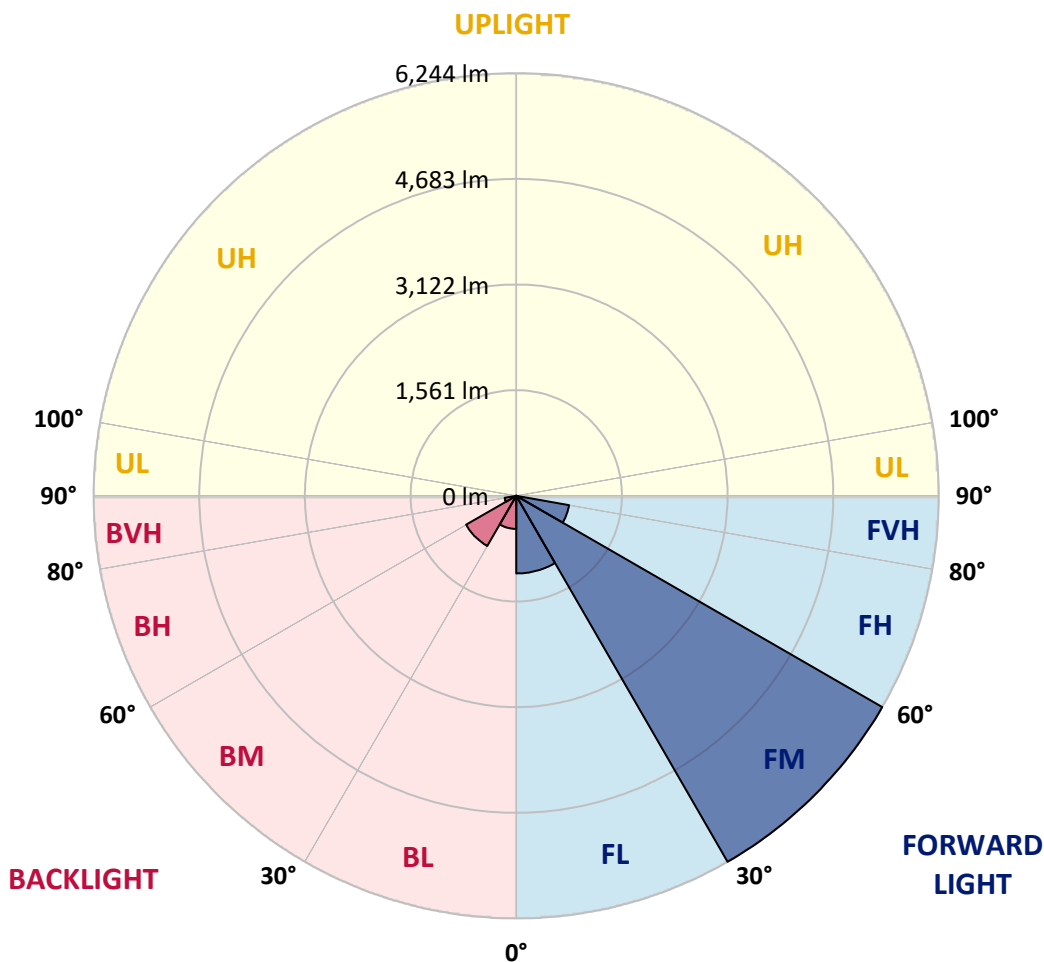


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.4	11.8			
FM (30°-60°)	6244.4	64.2			
FH (60°-80°)	792.2	8.2			G1/1800
FVH (80°-90°)	8.2	0.1			G0/10
BL (0°-30°)	488.4	5.0	B1/500		
BM (30°-60°)	855.7	8.8	B1/1000		
BH (60°-80°)	174.2	1.8	B1/500		G1/500
BVH (80°-90°)	8.5	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°	55°	65°	75°	76°	85°
0°	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7
2.5°	1863.2	1820.2	1822.0	1818.4	1813.0	1793.3	1734.2	1725.2	1685.8	1675.1	1639.2
5°	2087.1	2049.5	2071.0	2038.7	2008.3	1990.4	1893.6	1848.8	1786.1	1762.9	1712.7
7.5°	2226.9	2208.9	2201.8	2203.6	2174.9	2130.1	2087.1	1988.6	1904.4	1886.5	1780.8
10°	2294.9	2284.2	2294.9	2289.6	2302.1	2307.5	2232.2	2173.1	2049.5	2019.0	1854.2
12.5°	2311.1	2332.6	2341.5	2364.8	2395.3	2447.2	2441.8	2361.2	2196.4	2176.7	1967.1
15°	2350.5	2368.4	2359.4	2397.1	2454.4	2542.2	2588.7	2576.2	2398.8	2363.0	2097.9
17.5°	2386.3	2354.1	2384.5	2459.8	2517.1	2651.4	2764.3	2816.3	2619.2	2578.0	2217.9
20°	2434.7	2425.7	2420.3	2458.0	2560.1	2739.2	2963.2	3058.1	2866.4	2823.4	2389.9
22.5°	2581.6	2583.4	2579.8	2524.3	2597.7	2800.1	3137.0	3371.6	3162.0	3126.2	2585.2
25°	2775.1	2751.8	2733.9	2689.1	2680.1	2855.7	3312.5	3755.0	3516.8	3491.7	2796.6
27.5°	2979.3	2979.3	2925.6	2884.3	2827.0	2993.6	3473.8	4127.7	3944.9	3910.9	2981.1
30°	3201.4	3214.0	3206.8	3119.0	3083.2	3144.1	3638.6	4604.2	4435.8	4392.8	3285.6
32.5°	3529.3	3502.4	3532.9	3459.4	3353.7	3407.5	3898.3	5030.6	5073.6	5012.7	3685.2
35°	3962.8	3946.7	3927.0	3807.0	3681.6	3724.6	4265.6	5555.5	5874.4	5843.9	4088.2
37.5°	4351.6	4342.6	4326.5	4244.1	4099.0	4151.0	4683.0	6101.9	6655.5	6555.2	4658.0
40°	4760.1	4808.4	4756.5	4683.0	4550.5	4665.1	5173.9	6426.2	7313.0	7191.2	5093.3
42.5°	5313.6	5276.0	5299.3	5165.0	5093.3	5218.7	5666.6	6750.4	7823.6	7678.5	5555.5
45°	5903.1	5904.8	5842.1	5799.1	5612.8	5749.0	5969.3	6929.6	8230.2	8117.4	5904.8
47.5°	6281.1	6279.3	6347.4	6415.4	6223.7	6089.4	6175.4	7099.8	8439.8	8387.9	6032.0
50°	6221.9	6239.9	6327.6	6582.0	6682.4	6501.4	6368.9	7049.6	8534.8	8529.4	6141.3
52.5°	5412.2	5471.3	5618.2	5985.5	6490.7	6714.6	6571.3	7142.8	8581.4	8590.3	6304.4
55°	4120.5	4152.7	4432.2	4878.3	5437.3	6204.0	6490.7	7216.2	8617.2	8633.3	6501.4
56°	3574.1	3488.1	3891.2	4208.3	4876.5	5714.9	6286.4	7158.9	8595.7	8719.3	6600.0
57.5°	2698.0	2640.7	2966.8	3362.7	4005.8	4890.8	5652.2	6888.4	8450.6	8448.8	6458.4
60°	1641.0	1583.7	1834.5	2067.4	2427.5	3011.5	3819.5	5485.6	7144.6	7295.1	5229.4
62.5°	976.4	1012.2	1259.4	1401.0	1517.4	1578.3	1976.0	3260.6	4767.2	4874.7	3244.4
65°	650.3	662.9	849.2	1082.1	1134.0	902.9	804.4	1320.3	2067.4	2001.1	1338.3
67.5°	401.3	430.0	569.7	813.3	901.1	659.3	381.6	492.7	569.7	569.7	387.0
70°	243.6	258.0	379.8	553.6	618.1	424.6	277.7	277.7	274.1	268.7	231.1
72.5°	116.4	125.4	193.5	284.9	290.2	223.9	215.0	234.7	229.3	227.5	191.7
75°	50.2	53.7	68.1	89.6	102.1	95.0	130.8	168.4	173.8	168.4	137.9
77.5°	16.1	17.9	25.1	32.2	34.0	41.2	55.5	69.9	80.6	75.2	68.1
80°	1.8	3.6	7.2	16.1	25.1	32.2	41.2	46.6	52.0	52.0	48.4
82.5°	1.8	1.8	7.2	14.3	23.3	30.5	39.4	44.8	52.0	53.7	50.2
85°	0.0	1.8	5.4	12.5	19.7	19.7	17.9	17.9	12.5	12.5	12.5
87.5°	0.0	0.0	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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°	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7	1617.7
2.5°	1632.1	1628.5	1580.1	1549.7	1533.5	1501.3	1481.6	1467.3	1456.5	1444.0	1445.8
5°	1653.6	1641.0	1560.4	1504.9	1438.6	1402.8	1372.3	1347.2	1331.1	1327.5	1320.3
7.5°	1714.5	1648.2	1526.4	1426.0	1341.8	1306.0	1279.1	1263.0	1270.2	1254.1	1266.6
10°	1761.1	1662.5	1485.2	1340.1	1255.9	1229.0	1214.7	1227.2	1245.1	1237.9	1229.0
12.5°	1818.4	1676.9	1418.9	1257.6	1178.8	1159.1	1184.2	1207.5	1243.3	1257.6	1239.7
15°	1882.9	1693.0	1334.7	1162.7	1112.5	1128.7	1171.7	1212.9	1248.7	1266.6	1277.4
17.5°	1961.7	1687.6	1252.3	1087.5	1049.8	1096.4	1148.4	1186.0	1239.7	1266.6	1259.4
20°	2035.2	1669.7	1160.9	1012.2	1014.0	1057.0	1100.0	1160.9	1189.6	1225.4	1212.9
22.5°	2105.0	1637.4	1066.0	960.3	960.3	1026.5	1048.0	1087.5	1112.5	1130.4	1128.7
25°	2203.6	1576.5	987.1	910.1	931.6	974.6	992.5	1005.0	994.3	1008.6	1010.4
27.5°	2273.4	1513.8	922.6	865.3	904.7	937.0	931.6	924.4	899.3	879.6	892.2
30°	2348.7	1440.4	867.1	834.8	856.3	885.0	863.5	842.0	802.6	770.4	772.1
32.5°	2456.2	1406.3	818.7	799.0	827.7	831.3	808.0	775.7	736.3	705.9	704.1
35°	2656.8	1384.8	777.5	775.7	781.1	782.9	759.6	720.2	704.1	679.0	687.9
37.5°	2857.5	1374.1	748.9	741.7	739.9	741.7	714.8	677.2	707.7	705.9	709.4
40°	3113.7	1422.5	707.7	698.7	700.5	700.5	666.4	655.7	709.4	714.8	716.6
42.5°	3373.4	1483.4	680.8	652.1	659.3	659.3	641.4	628.8	666.4	630.6	625.2
45°	3599.2	1573.0	652.1	605.5	623.4	632.4	627.0	605.5	582.2	521.3	521.3
47.5°	3672.6	1651.8	618.1	560.7	575.1	614.5	598.4	553.6	512.4	462.2	458.6
50°	3801.6	1737.8	591.2	508.8	539.2	587.6	571.5	526.7	480.1	444.3	446.1
52.5°	3934.2	1836.3	541.0	447.9	485.5	566.1	566.1	516.0	444.3	419.2	415.6
55°	4133.0	1832.7	451.5	367.3	433.5	533.9	542.8	462.2	397.7	378.0	378.0
56°	4161.7	1750.3	406.7	344.0	410.3	524.9	526.7	447.9	379.8	358.3	358.3
57.5°	3946.7	1580.1	356.5	315.3	381.6	508.8	510.6	435.3	365.5	335.0	331.4
60°	3036.6	1069.5	297.4	281.3	345.8	458.6	467.6	395.9	320.7	297.4	295.6
62.5°	1714.5	593.0	261.6	254.4	297.4	390.6	417.4	345.8	272.3	259.8	263.4
65°	782.9	326.1	220.4	206.0	240.1	301.0	336.8	284.9	223.9	209.6	209.6
67.5°	286.6	222.1	188.1	163.0	168.4	195.3	218.6	184.5	148.7	127.2	132.6
70°	204.2	186.3	164.8	141.5	130.8	127.2	125.4	103.9	73.5	57.3	60.9
72.5°	164.8	154.1	137.9	120.0	102.1	86.0	73.5	53.7	34.0	23.3	21.5
75°	118.2	112.9	100.3	86.0	71.7	60.9	50.2	34.0	17.9	9.0	9.0
77.5°	60.9	60.9	59.1	53.7	44.8	35.8	28.7	19.7	10.7	3.6	3.6
80°	46.6	50.2	52.0	46.6	41.2	32.2	23.3	14.3	7.2	1.8	1.8
82.5°	44.8	52.0	55.5	48.4	41.2	30.5	23.3	14.3	7.2	1.8	1.8
85°	10.7	10.7	16.1	17.9	23.3	25.1	19.7	12.5	5.4	1.8	1.8
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	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)