

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: P528655

Luminaire Tested: **GALN-SA3D-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528655
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-SA3D-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA 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: 12406 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

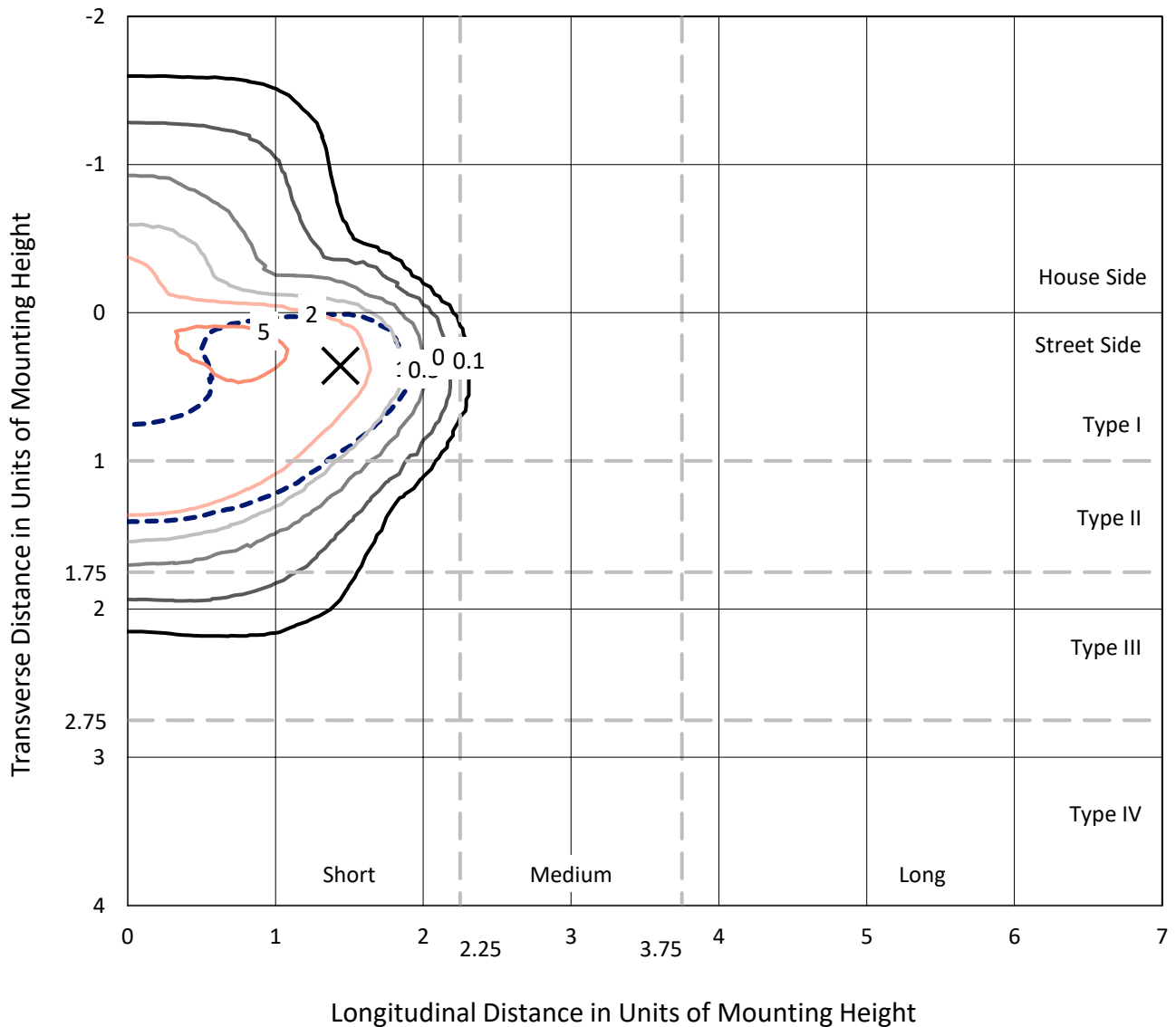
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

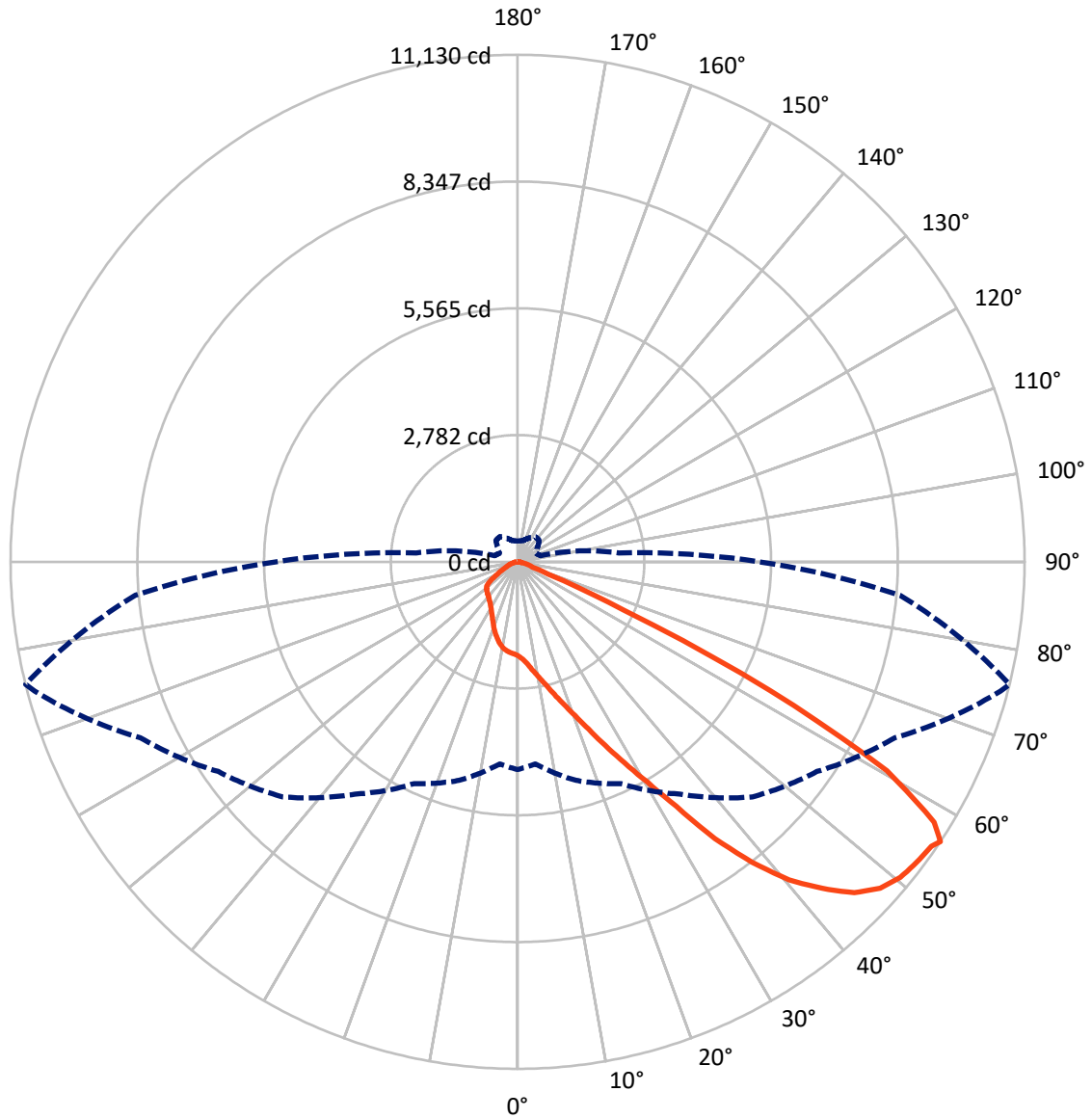
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
House Side	Lumens	1948.9	0.0	1948.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	10457.1	0.0	10457.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	12406.0	0.0	12406.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	1.7
10°-20°	668.3	5.4
20°-30°	1211.8	9.8
30°-40°	2089.8	16.8
40°-50°	3394.9	27.4
50°-60°	3578.4	28.8
60°-70°	1093.4	8.8
70°-80°	140.2	1.1
80°-90°	21.3	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°	12406.0	100.0
0°-180°	12406.0	100.0

Coefficient of Utilization

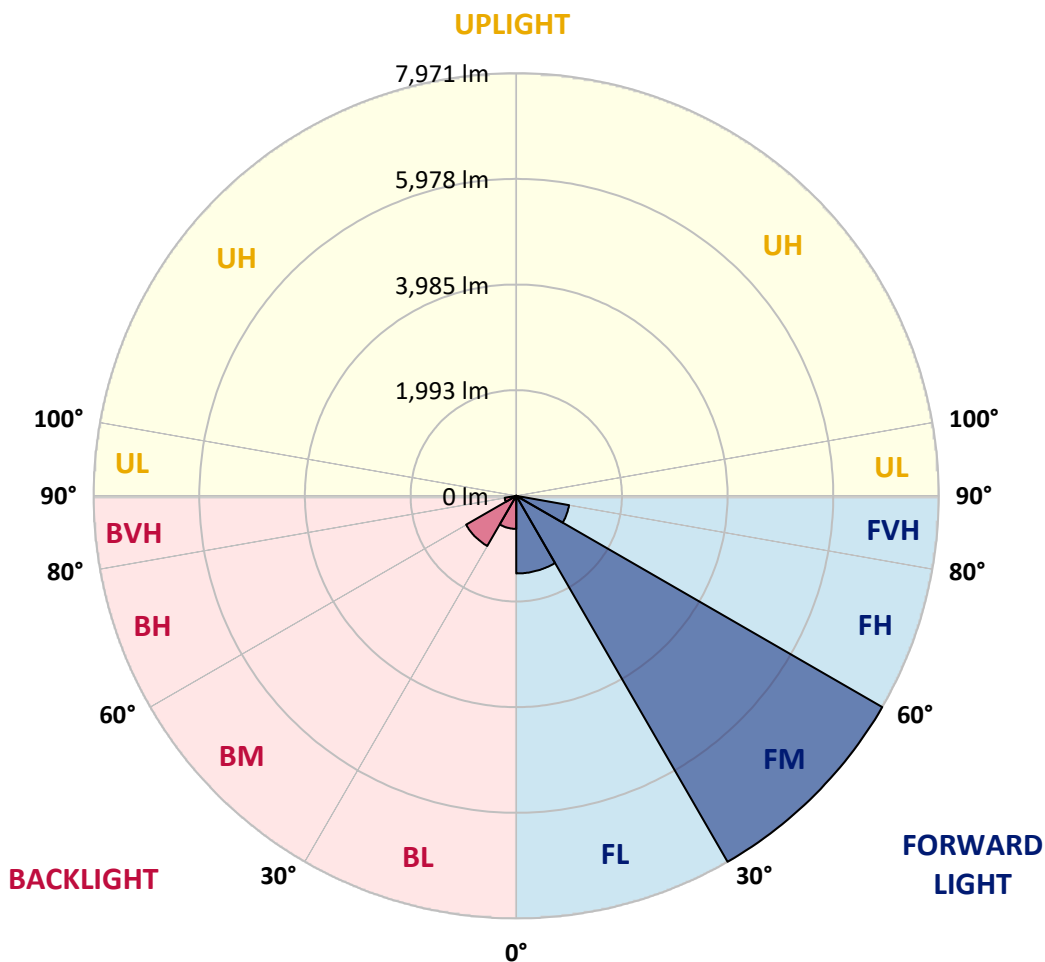


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1464.6	11.8			
FM (30°-60°)	7970.8	64.2			
FH (60°-80°)	1011.2	8.2			G1/1800
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	623.5	5.0	B2/1000		
BM (30°-60°)	1092.3	8.8	B2/2500		
BH (60°-80°)	222.3	1.8	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0
2.5°	2378.3	2323.4	2325.7	2321.1	2314.3	2289.1	2213.6	2202.2	2151.9	2138.2	2092.4
5°	2664.1	2616.1	2643.6	2602.4	2563.5	2540.7	2417.2	2360.0	2280.0	2250.2	2186.2
7.5°	2842.5	2819.6	2810.5	2812.8	2776.2	2719.0	2664.1	2538.4	2430.9	2408.0	2273.1
10°	2929.4	2915.7	2929.4	2922.6	2938.6	2945.4	2849.4	2773.9	2616.1	2577.2	2366.9
12.5°	2950.0	2977.4	2988.9	3018.6	3057.5	3123.8	3116.9	3014.0	2803.6	2778.5	2510.9
15°	3000.3	3023.2	3011.7	3059.8	3132.9	3245.0	3304.5	3288.4	3062.1	3016.3	2677.9
17.5°	3046.0	3004.9	3043.8	3139.8	3213.0	3384.5	3528.6	3594.9	3343.3	3290.7	2831.1
20°	3107.8	3096.4	3089.5	3137.5	3267.9	3496.5	3782.4	3903.6	3658.9	3604.0	3050.6
22.5°	3295.3	3297.6	3293.0	3222.1	3315.9	3574.3	4004.2	4303.8	4036.2	3990.5	3299.9
25°	3542.3	3512.6	3489.7	3432.5	3421.1	3645.2	4228.3	4793.2	4489.0	4457.0	3569.7
27.5°	3803.0	3803.0	3734.4	3681.8	3608.6	3821.3	4434.1	5268.8	5035.6	4992.1	3805.3
30°	4086.5	4102.6	4093.4	3981.4	3935.6	4013.4	4644.5	5877.1	5662.2	5607.3	4194.0
32.5°	4505.0	4470.7	4509.6	4415.8	4280.9	4349.5	4976.1	6421.4	6476.3	6398.5	4704.0
35°	5058.4	5037.9	5012.7	4859.5	4699.4	4754.3	5444.9	7091.4	7498.5	7459.6	5218.5
37.5°	5554.7	5543.2	5522.7	5417.5	5232.2	5298.6	5977.7	7788.9	8495.5	8367.5	5945.7
40°	6076.1	6137.8	6071.5	5977.7	5808.5	5954.9	6604.3	8202.8	9334.8	9179.3	6501.4
42.5°	6782.7	6734.7	6764.4	6592.9	6501.4	6661.5	7233.2	8616.7	9986.5	9801.3	7091.4
45°	7535.1	7537.4	7457.3	7402.4	7164.6	7338.4	7619.7	8845.4	10505.6	10361.6	7537.4
47.5°	8017.6	8015.3	8102.2	8189.1	7944.4	7772.9	7882.7	9062.7	10773.2	10706.9	7699.7
50°	7942.1	7965.0	8077.0	8401.8	8529.8	8298.9	8129.6	8998.6	10894.4	10887.5	7839.2
52.5°	6908.5	6983.9	7171.5	7640.3	8285.1	8571.0	8388.1	9117.5	10953.9	10965.3	8047.3
55°	5259.7	5300.8	5657.6	6227.0	6940.5	7919.3	8285.1	9211.3	10999.6	11020.2	8298.9
56°	4562.2	4452.4	4967.0	5371.7	6224.7	7295.0	8024.4	9138.1	10972.2	11129.9	8424.6
57.5°	3443.9	3370.8	3787.0	4292.4	5113.3	6243.0	7214.9	8792.8	10786.9	10784.6	8244.0
60°	2094.7	2021.5	2341.7	2639.0	3098.6	3844.1	4875.5	7002.2	9119.8	9311.9	6675.2
62.5°	1246.3	1292.1	1607.6	1788.3	1936.9	2014.7	2522.4	4162.0	6085.2	6222.4	4141.4
65°	830.1	846.1	1084.0	1381.2	1447.6	1152.6	1026.8	1685.4	2639.0	2554.4	1708.3
67.5°	512.2	548.8	727.2	1038.2	1150.3	841.5	487.1	628.9	727.2	727.2	494.0
70°	311.0	329.3	484.8	706.6	789.0	542.0	354.5	354.5	349.9	343.0	295.0
72.5°	148.6	160.1	247.0	363.6	370.5	285.9	274.4	299.6	292.7	290.4	244.7
75°	64.0	68.6	86.9	114.3	130.3	121.2	166.9	215.0	221.8	215.0	176.1
77.5°	20.6	22.9	32.0	41.2	43.4	52.6	70.9	89.2	102.9	96.0	86.9
80°	2.3	4.6	9.1	20.6	32.0	41.2	52.6	59.5	66.3	66.3	61.7
82.5°	2.3	2.3	9.1	18.3	29.7	38.9	50.3	57.2	66.3	68.6	64.0
85°	0.0	2.3	6.9	16.0	25.2	25.2	22.9	22.9	16.0	16.0	16.0
87.5°	0.0	0.0	2.3	2.3	2.3	4.6	4.6	4.6	4.6	4.6	4.6
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°	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0	2065.0
2.5°	2083.3	2078.7	2017.0	1978.1	1957.5	1916.4	1891.2	1872.9	1859.2	1843.2	1845.5
5°	2110.7	2094.7	1991.8	1920.9	1836.3	1790.6	1751.7	1719.7	1699.1	1694.5	1685.4
7.5°	2188.5	2103.9	1948.4	1820.3	1712.8	1667.1	1632.8	1612.2	1621.4	1600.8	1616.8
10°	2247.9	2122.2	1895.8	1710.5	1603.1	1568.8	1550.5	1566.5	1589.3	1580.2	1568.8
12.5°	2321.1	2140.5	1811.2	1605.3	1504.7	1479.6	1511.6	1541.3	1587.1	1605.3	1582.5
15°	2403.4	2161.0	1703.7	1484.1	1420.1	1440.7	1495.6	1548.2	1593.9	1616.8	1630.5
17.5°	2504.1	2154.2	1598.5	1388.1	1340.1	1399.5	1465.9	1513.9	1582.5	1616.8	1607.6
20°	2597.8	2131.3	1481.9	1292.1	1294.3	1349.2	1404.1	1481.9	1518.4	1564.2	1548.2
22.5°	2687.0	2090.2	1360.7	1225.7	1225.7	1310.3	1337.8	1388.1	1420.1	1443.0	1440.7
25°	2812.8	2012.4	1260.0	1161.7	1189.1	1244.0	1266.9	1282.9	1269.2	1287.5	1289.8
27.5°	2902.0	1932.4	1177.7	1104.5	1154.8	1196.0	1189.1	1180.0	1148.0	1122.8	1138.8
30°	2998.0	1838.6	1106.8	1065.7	1093.1	1129.7	1102.2	1074.8	1024.5	983.3	985.6
32.5°	3135.2	1795.2	1045.1	1019.9	1056.5	1061.1	1031.4	990.2	939.9	901.0	898.7
35°	3391.4	1767.7	992.5	990.2	997.1	999.3	969.6	919.3	898.7	866.7	878.1
37.5°	3647.5	1754.0	955.9	946.7	944.5	946.7	912.4	864.4	903.3	901.0	905.6
40°	3974.5	1815.7	903.3	891.9	894.1	894.1	850.7	837.0	905.6	912.4	914.7
42.5°	4306.1	1893.5	869.0	832.4	841.5	841.5	818.7	802.7	850.7	805.0	798.1
45°	4594.2	2007.8	832.4	772.9	795.8	807.2	800.4	772.9	743.2	665.5	665.5
47.5°	4688.0	2108.4	789.0	715.8	734.1	784.4	763.8	706.6	654.0	590.0	585.4
50°	4852.6	2218.2	754.7	649.5	688.3	750.1	729.5	672.3	612.9	567.1	569.4
52.5°	5021.9	2344.0	690.6	571.7	619.7	722.6	722.6	658.6	567.1	535.1	530.5
55°	5275.7	2339.4	576.3	468.8	553.4	681.5	692.9	590.0	507.7	482.5	482.5
56°	5312.3	2234.2	519.1	439.1	523.7	670.0	672.3	571.7	484.8	457.4	457.4
57.5°	5037.9	2017.0	455.1	402.5	487.1	649.5	651.7	555.7	466.5	427.6	423.1
60°	3876.2	1365.2	379.6	359.0	441.4	585.4	596.9	505.4	409.3	379.6	377.3
62.5°	2188.5	756.9	333.9	324.7	379.6	498.5	532.8	441.4	347.6	331.6	336.2
65°	999.3	416.2	281.3	263.0	306.4	384.2	429.9	363.6	285.9	267.6	267.6
67.5°	365.9	283.6	240.1	208.1	215.0	249.3	279.0	235.5	189.8	162.4	169.2
70°	260.7	237.8	210.4	180.7	166.9	162.4	160.1	132.6	93.8	73.2	77.8
72.5°	210.4	196.7	176.1	153.2	130.3	109.8	93.8	68.6	43.4	29.7	27.4
75°	150.9	144.1	128.1	109.8	91.5	77.8	64.0	43.4	22.9	11.4	11.4
77.5°	77.8	77.8	75.5	68.6	57.2	45.7	36.6	25.2	13.7	4.6	4.6
80°	59.5	64.0	66.3	59.5	52.6	41.2	29.7	18.3	9.1	2.3	2.3
82.5°	57.2	66.3	70.9	61.7	52.6	38.9	29.7	18.3	9.1	2.3	2.3
85°	13.7	13.7	20.6	22.9	29.7	32.0	25.2	16.0	6.9	2.3	2.3
87.5°	4.6	4.6	4.6	4.6	4.6	4.6	2.3	2.3	2.3	2.3	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)