

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: P530087

Luminaire Tested: **GALN-SA5B-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17556 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

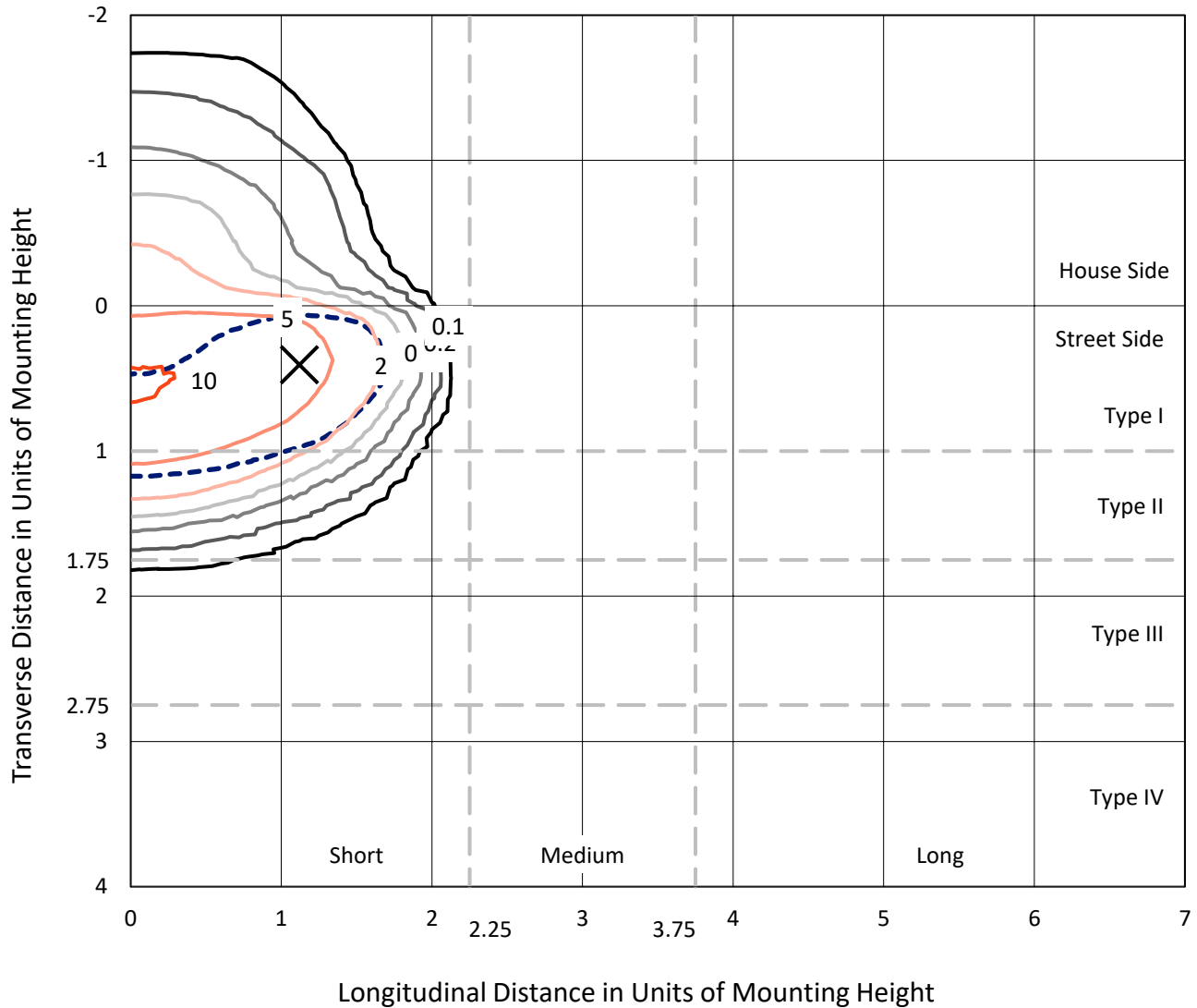
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

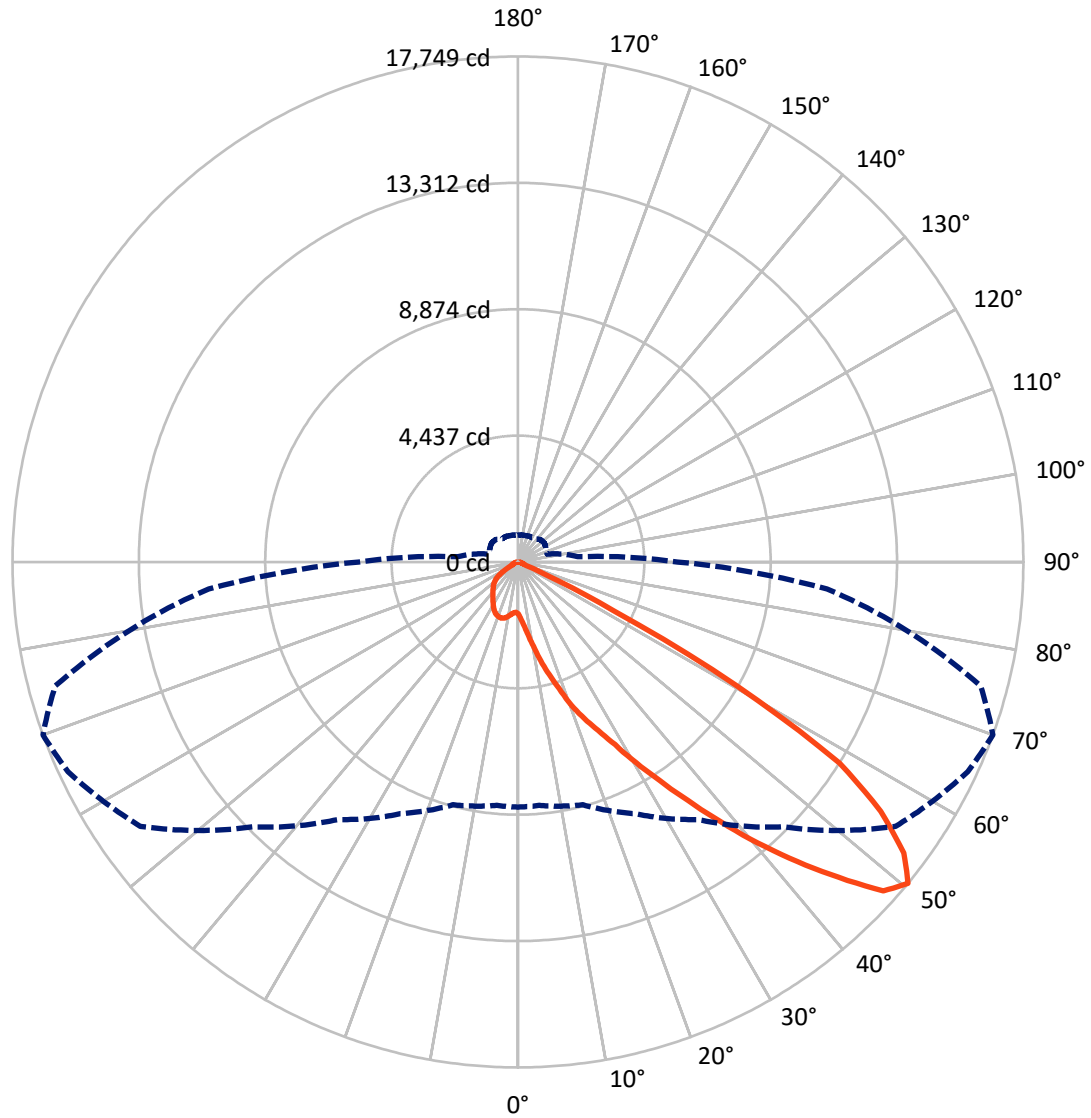
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2451.8	0.0	2451.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	15104.2	0.0	15104.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	17556.0	0.0	17556.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	1.3
10°-20°	1022.9	5.8
20°-30°	2145.8	12.2
30°-40°	3698.6	21.1
40°-50°	5405.5	30.8
50°-60°	4210.0	24.0
60°-70°	713.3	4.1
70°-80°	98.0	0.6
80°-90°	25.4	0.1
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°	17556.0	100.0
0°-180°	17556.0	100.0

Coefficient of Utilization



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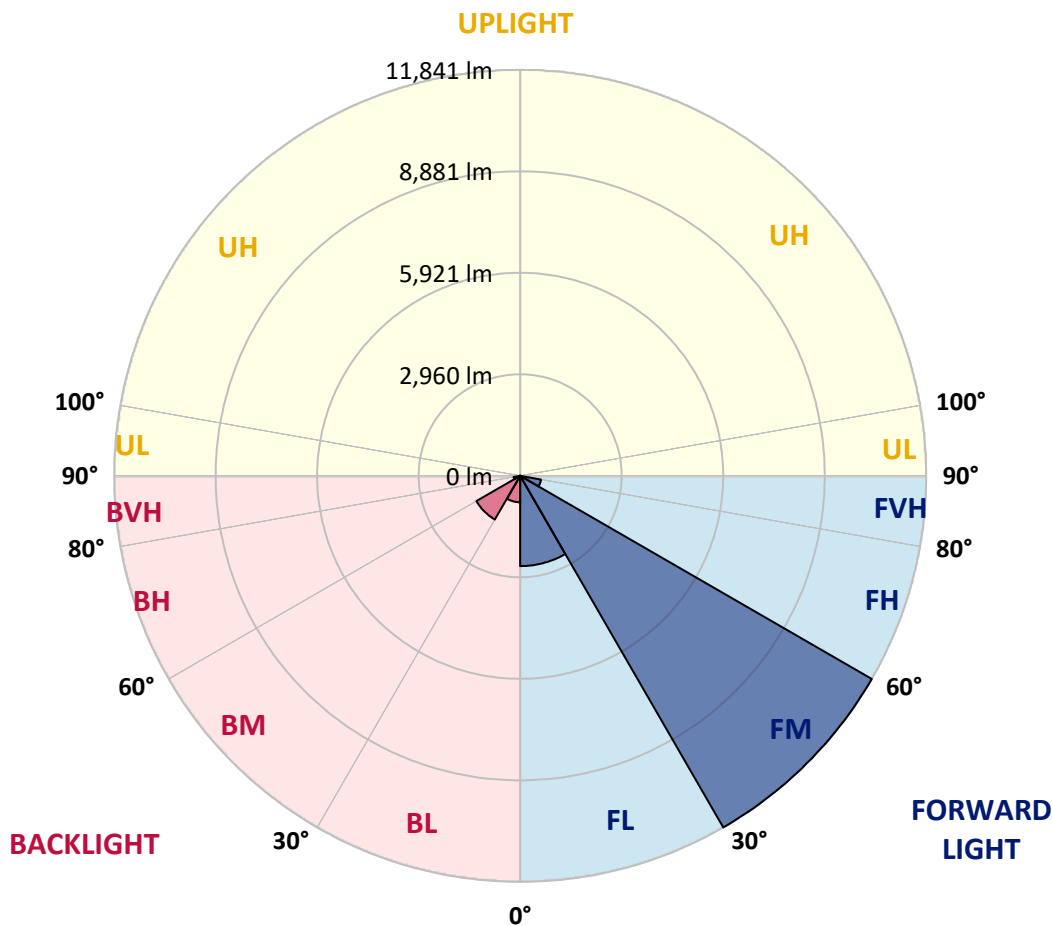
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2633.6	15.0			
FM (30°-60°)	11841.2	67.4			
FH (60°-80°)	617.6	3.5			G0/660
FVH (80°-90°)	11.7	0.1			G1/100
BL (0°-30°)	771.5	4.4	B2/1000		
BM (30°-60°)	1473.0	8.4	B2/2500		
BH (60°-80°)	193.7	1.1	B1/500		G1/500
BVH (80°-90°)	13.7	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 I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5
2.5°	2381.3	2364.0	2326.5	2257.2	2228.3	2159.1	2118.6	2040.7	1991.6	1936.8	1876.2
5°	3354.0	3264.6	3209.7	3131.8	2903.8	2762.3	2528.5	2329.4	2237.0	2136.0	1997.4
7.5°	4358.5	4300.8	4225.7	4058.3	3902.5	3608.0	3206.8	2768.1	2580.5	2407.3	2133.1
10°	5189.8	5028.2	5019.5	4895.4	4725.1	4373.0	3890.9	3345.4	3010.6	2756.5	2326.5
12.5°	5770.0	5622.8	5689.2	5674.7	5516.0	5192.7	4635.6	3914.0	3564.8	3169.3	2525.6
15°	6298.2	6237.6	6217.4	6200.1	6136.6	5897.0	5397.6	4606.8	4101.6	3625.4	2750.8
17.5°	6814.9	6659.0	6734.1	6748.5	6742.7	6526.2	6058.6	5264.9	4670.3	4107.4	2987.5
20°	7273.8	7288.3	7187.2	7167.0	7149.7	7141.0	6685.0	5917.2	5368.8	4612.5	3296.3
22.5°	7862.7	7761.6	7851.1	7793.4	7680.8	7611.5	7262.3	6494.5	5974.9	5221.6	3610.9
25°	8558.3	8639.1	8428.4	8405.3	8281.2	8041.6	7727.0	7141.0	6558.0	5787.3	3951.5
27.5°	9415.6	9274.1	9219.3	9092.3	8867.1	8766.1	8396.6	7807.8	7262.3	6381.9	4280.6
30°	10151.6	10114.1	9839.9	9689.8	9493.5	9490.6	8973.9	8711.3	8180.2	7314.2	4733.8
32.5°	10752.0	10587.5	10486.4	10382.5	10223.8	10267.1	9831.2	9692.7	9158.7	8180.2	5267.7
35°	11153.2	11034.9	10974.2	10815.5	10769.3	10962.7	10780.8	10723.1	10284.4	9398.2	5894.1
37.5°	11280.2	11317.7	11306.2	11107.0	11205.2	11727.6	11961.4	11811.3	11580.4	10682.7	6572.4
40°	11392.8	11418.7	11361.0	11594.8	11874.8	12469.4	13315.1	13066.9	12980.3	11984.5	7516.3
42.5°	11456.3	11436.1	11436.1	11840.2	12264.5	13459.5	14622.7	14458.2	14391.8	13370.0	8607.4
45°	11182.1	10985.8	11196.5	11744.9	12599.3	13947.3	15667.6	15895.6	15800.4	15018.1	9883.2
47.5°	10157.4	10278.6	10396.9	11130.1	12192.3	13797.2	16308.4	17084.8	17260.9	16403.6	10720.2
50°	8607.4	8581.4	8826.7	9750.4	11040.6	13150.6	16184.3	17428.3	17748.7	16819.3	10896.3
52.5°	6260.7	6451.2	6716.7	7634.6	9164.4	11476.5	14582.3	16542.2	16969.4	16308.4	10780.8
55°	3645.6	3434.9	4032.4	4808.8	6252.0	8656.4	12328.0	14663.1	15454.0	15378.9	10197.8
57.5°	1460.5	1414.4	1619.3	2182.1	3261.7	5365.9	8965.3	12048.0	13315.1	14085.8	8962.4
60°	640.8	626.4	736.0	889.0	1333.5	2473.7	4904.1	7493.2	8815.2	9842.8	6168.3
62.5°	461.8	456.1	510.9	565.7	704.3	1076.6	2060.9	3019.2	3763.9	4546.1	2762.3
65°	372.4	386.8	424.3	453.2	519.6	597.5	727.4	840.0	1030.5	1068.0	609.0
67.5°	303.1	314.6	349.3	381.0	392.6	323.3	334.8	294.4	294.4	262.7	210.7
70°	222.3	225.1	265.6	303.1	242.5	129.9	228.0	228.0	204.9	196.3	179.0
72.5°	164.5	167.4	199.2	187.6	95.3	80.8	167.4	184.7	167.4	158.8	144.3
75°	121.2	124.1	103.9	43.3	40.4	52.0	98.1	127.0	121.2	118.3	109.7
77.5°	23.1	17.3	14.4	20.2	28.9	43.3	63.5	77.9	80.8	86.6	80.8
80°	2.9	2.9	8.7	17.3	31.8	46.2	66.4	75.0	77.9	80.8	75.0
82.5°	0.0	2.9	8.7	17.3	31.8	43.3	57.7	66.4	72.2	75.0	72.2
85°	0.0	2.9	5.8	14.4	26.0	31.8	28.9	20.2	17.3	20.2	14.4
87.5°	0.0	0.0	2.9	2.9	5.8	5.8	5.8	5.8	5.8	5.8	5.8
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°	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5	1818.5
2.5°	1841.5	1830.0	1789.6	1746.3	1708.8	1726.1	1708.8	1694.3	1700.1	1694.3	1688.6
5°	1942.6	1890.6	1804.0	1766.5	1734.7	1731.9	1723.2	1720.3	1723.2	1723.2	1697.2
7.5°	2037.8	1954.1	1861.8	1821.3	1783.8	1786.7	1766.5	1766.5	1763.6	1749.2	1743.4
10°	2182.1	2069.6	1951.2	1879.1	1832.9	1824.2	1804.0	1783.8	1783.8	1783.8	1755.0
12.5°	2340.9	2199.5	2037.8	1954.1	1899.3	1856.0	1824.2	1818.5	1786.7	1780.9	1766.5
15°	2479.5	2300.5	2095.6	1980.1	1910.8	1853.1	1804.0	1772.3	1757.8	1749.2	1737.6
17.5°	2615.1	2387.1	2127.3	1980.1	1905.0	1838.7	1786.7	1757.8	1723.2	1729.0	1705.9
20°	2797.0	2479.5	2136.0	1942.6	1850.2	1786.7	1717.4	1703.0	1682.8	1665.5	1671.2
22.5°	2973.0	2545.8	2110.0	1896.4	1763.6	1688.6	1653.9	1636.6	1628.0	1613.5	1593.3
25°	3131.8	2618.0	2069.6	1812.7	1671.2	1616.4	1584.7	1581.8	1561.6	1561.6	1524.0
27.5°	3293.4	2644.0	2000.3	1714.5	1590.4	1558.7	1544.2	1538.5	1529.8	1509.6	1483.6
30°	3478.2	2652.6	1899.3	1613.5	1518.3	1483.6	1503.8	1518.3	1480.7	1443.2	1454.8
32.5°	3631.1	2632.4	1778.0	1518.3	1466.3	1449.0	1489.4	1503.8	1460.5	1420.1	1399.9
35°	3815.9	2583.4	1659.7	1443.2	1414.4	1449.0	1483.6	1483.6	1397.0	1348.0	1336.4
37.5°	4095.9	2528.5	1550.0	1379.7	1359.5	1431.7	1477.9	1446.1	1310.4	1249.8	1235.4
40°	4396.0	2493.9	1443.2	1316.2	1330.6	1402.8	1428.8	1330.6	1192.1	1154.6	1143.0
42.5°	4831.9	2424.6	1348.0	1261.4	1304.7	1362.4	1362.4	1186.3	1134.4	1114.2	1111.3
45°	5374.5	2375.5	1264.3	1215.2	1267.1	1281.6	1235.4	1111.3	1073.8	1068.0	1070.9
47.5°	5640.1	2280.3	1177.7	1160.3	1197.9	1200.8	1079.5	1050.7	1018.9	1010.3	1004.5
50°	5599.7	2110.0	1065.1	1088.2	1140.1	1111.3	984.3	990.0	961.2	958.3	943.9
52.5°	5316.8	1841.5	952.5	1007.4	1065.1	981.4	906.3	900.6	900.6	863.0	848.6
55°	4713.6	1483.6	816.9	886.1	955.4	825.5	805.3	799.5	785.1	750.5	741.8
57.5°	3732.2	1088.2	614.8	689.9	811.1	701.4	698.5	672.5	635.0	609.0	609.0
60°	2219.7	626.4	386.8	421.4	536.9	568.6	632.1	620.6	557.1	516.7	505.1
62.5°	1013.1	323.3	245.3	251.1	288.6	369.5	496.5	574.4	484.9	415.6	409.9
65°	340.6	239.6	202.1	193.4	199.2	222.3	297.3	407.0	386.8	320.4	308.8
67.5°	207.8	213.6	190.5	176.1	176.1	173.2	170.3	184.7	228.0	222.3	225.1
70°	179.0	196.3	176.1	158.8	153.0	144.3	121.2	101.0	86.6	101.0	106.8
72.5°	144.3	155.9	150.1	135.7	121.2	109.7	86.6	66.4	49.1	43.3	43.3
75°	106.8	115.5	121.2	103.9	92.4	77.9	63.5	43.3	26.0	17.3	17.3
77.5°	77.9	86.6	89.5	80.8	69.3	54.8	40.4	28.9	14.4	5.8	5.8
80°	66.4	77.9	86.6	80.8	72.2	52.0	37.5	20.2	11.5	2.9	2.9
82.5°	63.5	77.9	86.6	77.9	69.3	49.1	37.5	23.1	8.7	2.9	2.9
85°	14.4	20.2	26.0	31.8	37.5	37.5	28.9	17.3	8.7	2.9	2.9
87.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	2.9	2.9	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)