

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: P528228

Luminaire Tested: **GALN-SA3B-740-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15328 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

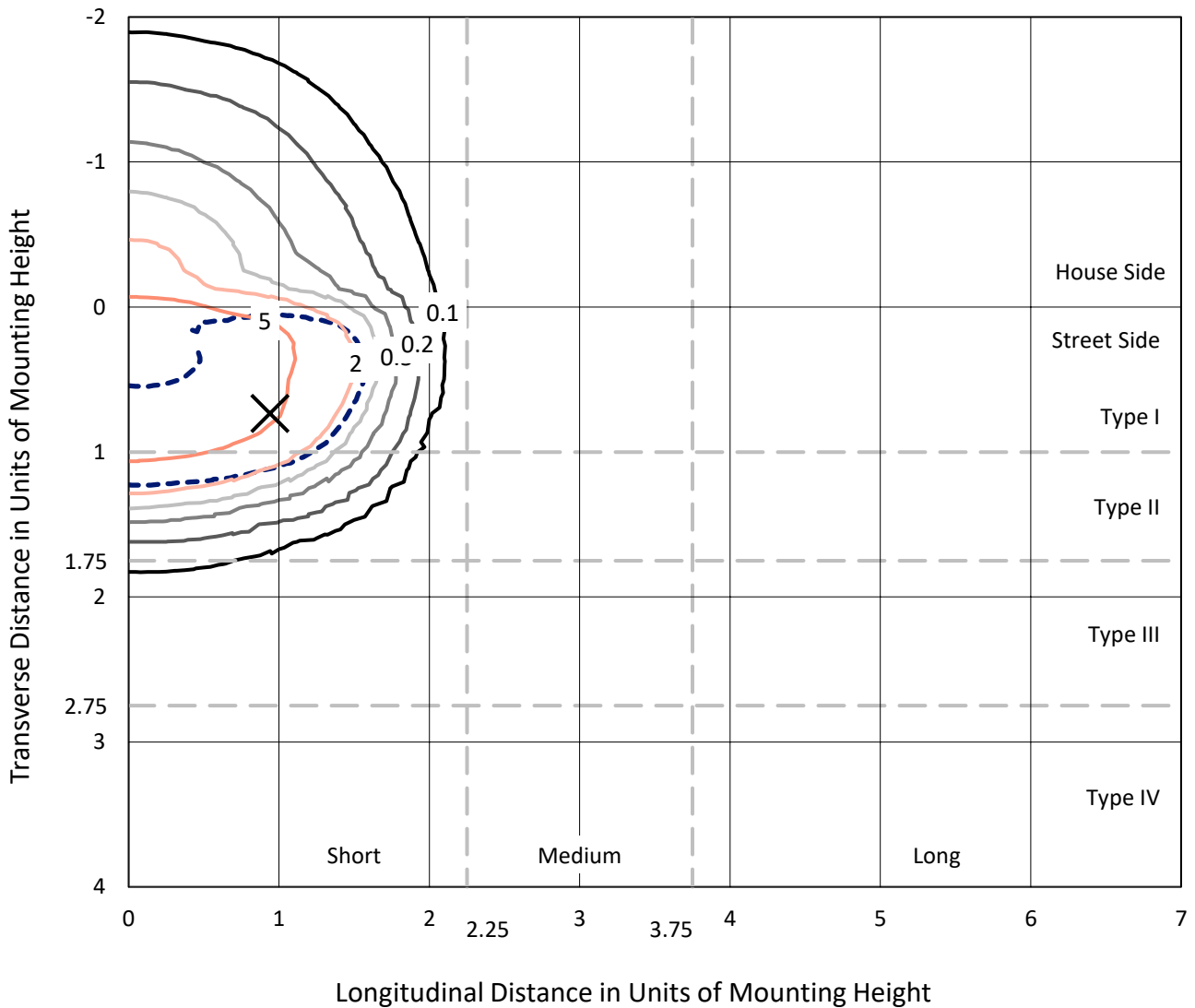
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

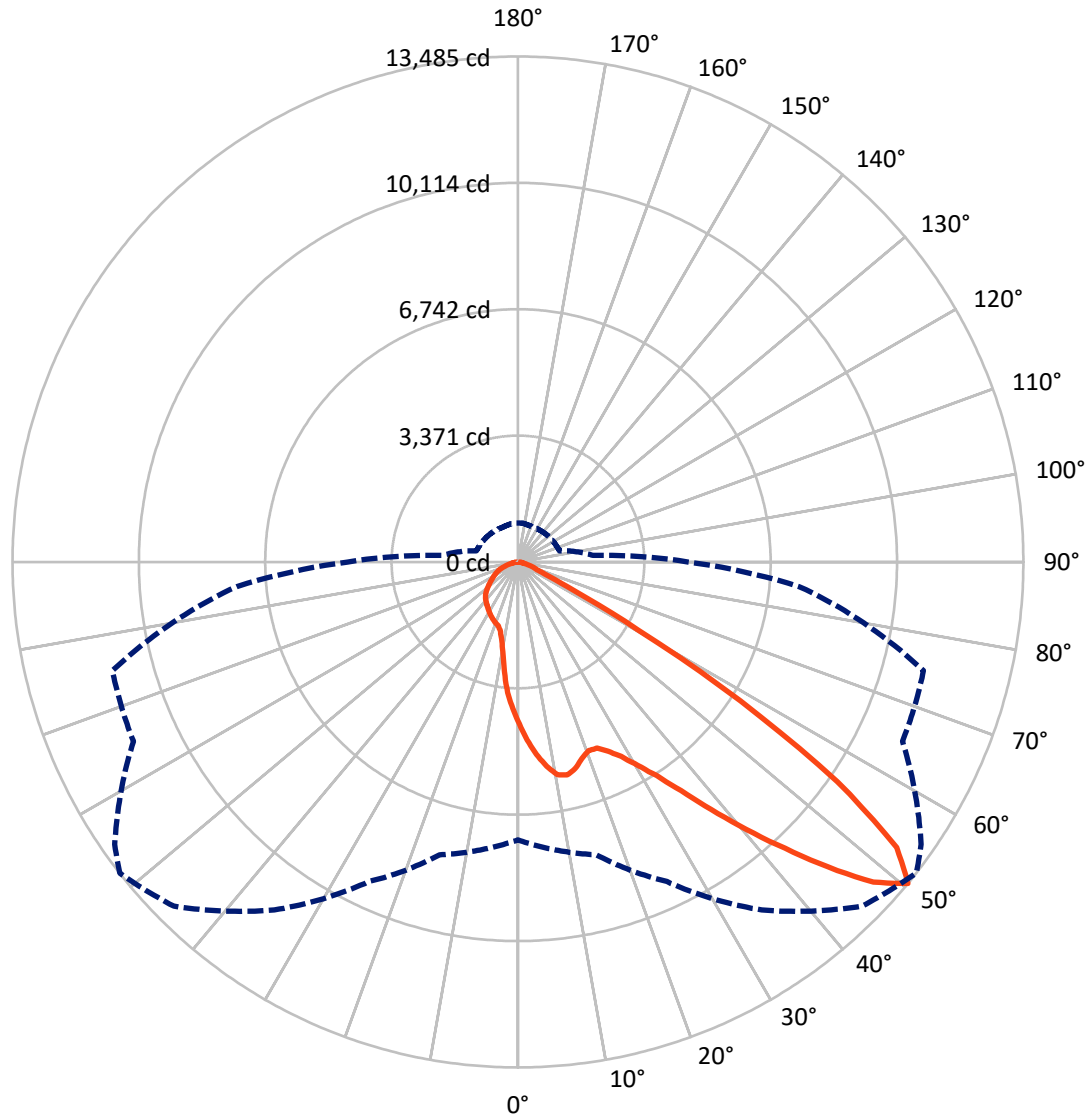
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2881.3	0.0	2881.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12446.7	0.0	12446.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	15328.0	0.0	15328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.2	2.6
10°-20°	1067.4	7.0
20°-30°	1798.0	11.7
30°-40°	3017.1	19.7
40°-50°	4615.5	30.1
50°-60°	3365.0	22.0
60°-70°	748.9	4.9
70°-80°	270.1	1.8
80°-90°	47.8	0.3
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°	15328.0	100.0
0°-180°	15328.0	100.0

Coefficient of Utilization



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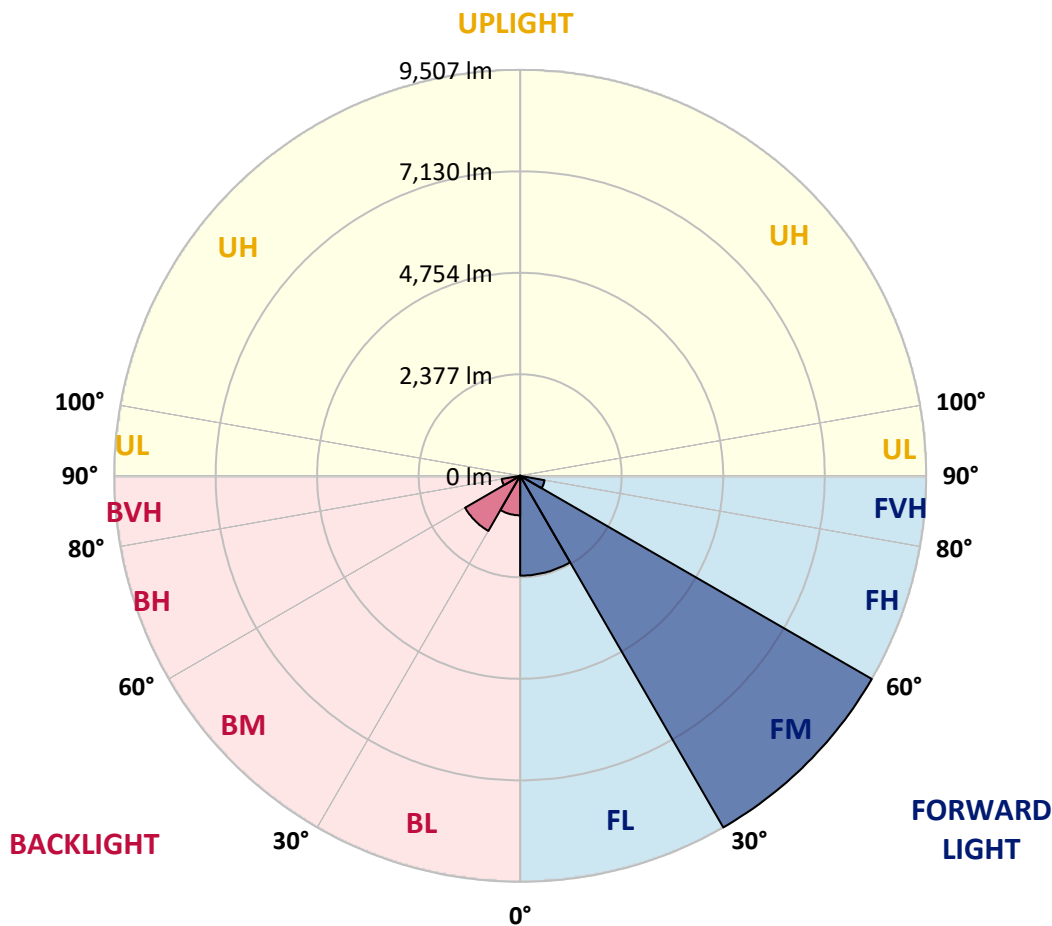
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2338.0	15.3			
FM (30°-60°)	9507.2	62.0			
FH (60°-80°)	580.0	3.8			G0/660
FVH (80°-90°)	21.4	0.1			G1/100
BL (0°-30°)	925.5	6.0	B2/1000		
BM (30°-60°)	1490.4	9.7	B2/2500		
BH (60°-80°)	439.0	2.9	B1/500		G1/500
BVH (80°-90°)	26.4	0.2			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°	52°	55°	65°	75°	85°
0°	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7
2.5°	5087.3	4989.4	5000.5	4930.3	4854.6	4832.4	4754.8	4680.9	4625.5	4507.3	4398.3
5°	5560.2	5530.7	5486.3	5430.9	5373.6	5233.2	5153.8	5061.5	4858.3	4675.4	4494.4
7.5°	5628.6	5623.0	5647.0	5647.0	5667.4	5613.8	5501.1	5436.4	5220.3	4922.9	4586.7
10°	5148.3	5164.9	5281.3	5432.8	5643.3	5789.3	5770.8	5754.2	5517.7	5111.3	4695.7
12.5°	4765.9	4729.0	4797.3	4926.6	5242.5	5595.3	5833.6	5835.5	5774.5	5412.4	4775.1
15°	4549.8	4575.6	4594.1	4655.1	4893.4	5301.6	5720.9	5844.7	6112.5	5624.9	4900.7
17.5°	4688.3	4601.5	4597.8	4612.6	4734.5	5041.1	5512.2	5724.6	6297.3	5898.3	5055.9
20°	4869.3	4867.5	4815.8	4797.3	4795.5	5068.8	5375.5	5663.7	6395.2	6252.9	5212.9
22.5°	5187.1	5187.1	5102.1	5061.5	4974.6	5198.2	5394.0	5589.8	6557.7	6496.8	5288.7
25°	5719.1	5632.3	5486.3	5386.6	5336.7	5416.1	5589.8	5765.3	6700.0	6755.4	5445.7
27.5°	6210.4	6073.7	6001.7	5829.9	5763.4	5717.2	5876.1	6053.4	6866.2	7158.1	5530.7
30°	6768.3	6744.3	6615.0	6393.3	6228.9	6143.9	6289.9	6465.4	7171.0	7570.0	5726.5
32.5°	7765.8	7547.8	7372.4	7100.8	6833.0	6651.9	6796.0	6912.4	7677.2	8000.4	5940.7
35°	8842.8	8772.6	8469.6	7980.1	7570.0	7407.5	7492.4	7579.3	8266.4	8658.0	6301.0
37.5°	9901.2	9805.2	9555.8	9143.9	8645.1	8314.5	8375.4	8477.0	8927.7	9544.7	6740.6
40°	10662.3	10544.1	10418.5	10357.5	9862.4	9409.9	9374.8	9400.6	9821.8	10376.0	7228.3
42.5°	10717.7	10863.7	10902.4	11148.1	11031.8	10660.5	10444.3	10449.9	10675.2	11198.0	7721.5
45°	10601.3	10466.5	10752.8	11423.4	11807.6	11981.2	11617.3	11571.2	11203.5	11674.6	7967.2
47.5°	9380.3	9417.3	9901.2	10961.6	12071.8	12847.6	12762.6	12609.3	11486.2	11658.0	7928.4
50°	7414.8	7638.4	8087.2	9408.0	11332.9	12984.3	13484.9	13130.2	11318.1	11199.9	7533.1
52.5°	4937.7	5030.1	5325.6	7030.6	9112.5	11606.2	12653.6	12734.9	11162.9	10599.5	7032.5
55°	2198.2	2190.8	2606.5	3672.3	5717.2	8831.7	10339.0	10834.1	10566.2	9988.1	6544.8
57.5°	931.0	962.4	1132.4	1586.8	2811.5	5329.3	7004.8	7438.9	8126.0	8201.8	5020.8
60°	629.9	633.6	679.8	794.3	1176.7	2503.0	3674.2	4195.1	4686.5	4653.2	2663.7
62.5°	495.1	508.0	543.1	589.3	698.3	1136.1	1644.0	1934.1	1965.5	1653.3	1010.4
65°	423.0	424.9	460.0	498.8	546.8	661.3	792.5	807.2	816.5	786.9	742.6
67.5°	349.1	352.8	380.5	424.9	469.2	506.1	543.1	561.6	604.0	687.2	676.1
70°	277.1	282.6	306.6	343.6	384.2	406.4	452.6	469.2	508.0	572.6	598.5
72.5°	210.6	212.4	232.8	258.6	295.6	317.7	356.5	375.0	400.9	456.3	480.3
75°	151.5	157.0	171.8	184.7	190.3	205.0	242.0	262.3	299.3	323.3	325.1
77.5°	79.4	83.1	86.8	86.8	105.3	133.0	157.0	168.1	194.0	212.4	203.2
80°	31.4	33.3	42.5	57.3	73.9	96.1	112.7	118.2	140.4	151.5	157.0
82.5°	18.5	20.3	27.7	40.6	53.6	68.3	81.3	86.8	101.6	114.5	118.2
85°	9.2	11.1	16.6	25.9	35.1	42.5	40.6	38.8	38.8	36.9	38.8
87.5°	3.7	3.7	5.5	5.5	5.5	7.4	9.2	9.2	9.2	11.1	11.1
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°	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7	4320.7
2.5°	4326.3	4252.4	4184.0	4058.4	3921.7	3882.9	3724.0	3666.8	3626.1	3578.1	3563.3
5°	4348.4	4250.5	4030.7	3777.6	3576.3	3317.7	3147.7	2964.8	2831.8	2798.6	2789.3
7.5°	4394.6	4226.5	3847.8	3465.4	3053.5	2702.5	2434.7	2290.6	2163.1	2155.7	2142.8
10°	4446.3	4154.5	3648.3	3048.0	2521.5	2196.4	2035.7	1972.9	1941.5	1934.1	1930.4
12.5°	4488.8	4139.7	3424.8	2641.6	2144.7	1948.8	1900.8	1895.3	1908.2	1911.9	1919.3
15°	4507.3	4080.6	3155.1	2277.7	1910.1	1838.0	1858.3	1880.5	1889.7	1913.7	1895.3
17.5°	4542.4	4004.8	2822.6	1989.5	1778.9	1791.8	1826.9	1852.8	1867.6	1884.2	1860.2
20°	4560.9	3936.5	2510.4	1817.7	1732.7	1756.7	1804.8	1825.1	1843.6	1850.9	1823.2
22.5°	4544.2	3796.1	2235.2	1679.1	1688.4	1719.8	1762.3	1784.4	1773.4	1743.8	1727.2
25°	4499.9	3598.4	1948.8	1590.5	1625.6	1681.0	1714.2	1697.6	1677.3	1660.7	1655.1
27.5°	4498.0	3356.4	1742.0	1509.2	1572.0	1647.7	1636.7	1621.9	1631.1	1618.2	1603.4
30°	4507.3	3121.8	1572.0	1463.0	1533.2	1570.2	1583.1	1568.3	1579.4	1555.4	1562.8
32.5°	4459.3	2892.8	1461.2	1409.4	1487.0	1485.2	1527.7	1538.8	1512.9	1463.0	1470.4
35°	4479.6	2708.1	1367.0	1385.4	1435.3	1435.3	1468.6	1455.6	1387.3	1357.7	1365.1
37.5°	4620.0	2527.0	1320.8	1352.2	1385.4	1400.2	1389.1	1333.7	1317.1	1317.1	1320.8
40°	4753.0	2371.9	1293.1	1344.8	1339.3	1348.5	1267.2	1272.8	1272.8	1274.6	1265.4
42.5°	4871.2	2266.6	1270.9	1300.5	1309.7	1261.7	1211.8	1206.3	1219.2	1217.3	1209.9
45°	4913.7	2179.8	1239.5	1250.6	1258.0	1178.5	1154.5	1143.4	1158.2	1163.8	1171.2
47.5°	4751.1	2107.7	1204.4	1182.2	1167.5	1115.7	1084.3	1064.0	1082.5	1113.9	1121.3
50°	4542.4	2013.5	1149.0	1106.5	1075.1	1052.9	1030.8	1010.4	1023.4	1045.5	1040.0
52.5°	4233.9	1865.7	1078.8	1034.5	980.9	986.4	966.1	955.0	962.4	962.4	956.9
55°	3794.2	1533.2	960.6	929.2	884.8	899.6	903.3	888.5	873.7	886.7	875.6
57.5°	2589.8	1082.5	857.1	857.1	812.8	833.1	831.3	796.2	761.1	764.8	757.4
60°	1498.1	862.7	790.6	783.2	737.1	753.7	757.4	733.4	679.8	683.5	676.1
62.5°	851.6	737.1	690.9	679.8	670.6	685.3	685.3	653.9	607.7	611.4	604.0
65°	724.1	683.5	617.0	615.1	611.4	615.1	600.4	567.1	526.5	509.8	511.7
67.5°	657.6	631.8	567.1	550.5	539.4	537.5	509.8	478.4	460.0	445.2	443.3
70°	576.3	556.0	508.0	485.8	474.7	448.9	421.2	400.9	375.0	367.6	375.0
72.5°	456.3	454.4	436.0	411.9	387.9	367.6	343.6	315.9	291.9	286.3	273.4
75°	315.9	319.6	323.3	319.6	299.3	273.4	245.7	223.5	194.0	177.3	173.6
77.5°	206.9	212.4	218.0	210.6	197.7	173.6	155.2	127.5	105.3	92.4	90.5
80°	151.5	158.9	162.6	157.0	142.2	123.8	103.4	81.3	64.7	53.6	53.6
82.5°	116.4	123.8	127.5	118.2	103.4	88.7	73.9	57.3	44.3	35.1	33.3
85°	40.6	38.8	46.2	48.0	57.3	53.6	44.3	33.3	25.9	18.5	16.6
87.5°	11.1	11.1	12.9	12.9	11.1	9.2	9.2	9.2	7.4	5.5	5.5
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)