

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: P528774

Luminaire Tested: **GALN-SA3D-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528774  
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-SA3D-827-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA 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: 15319 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

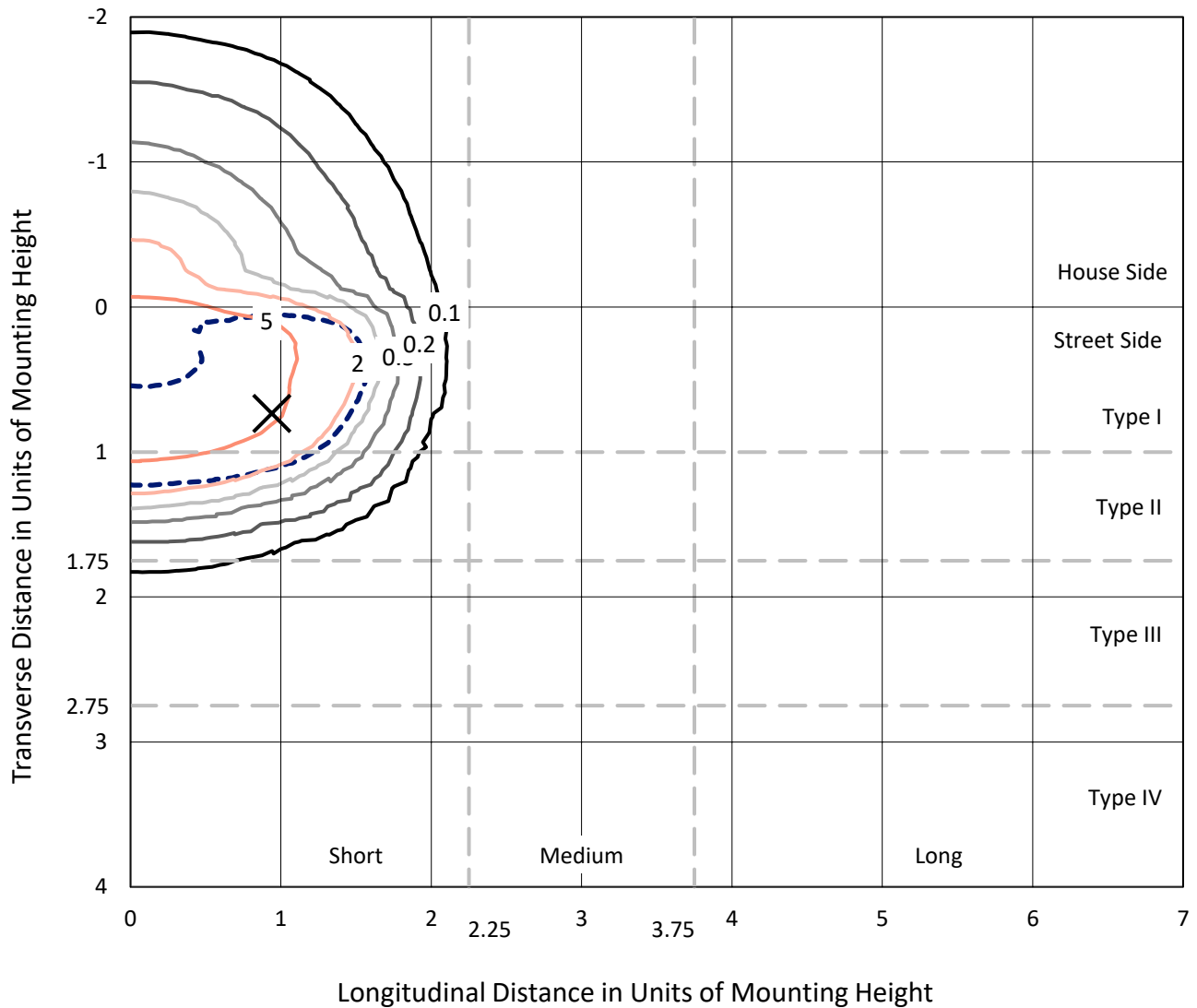
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

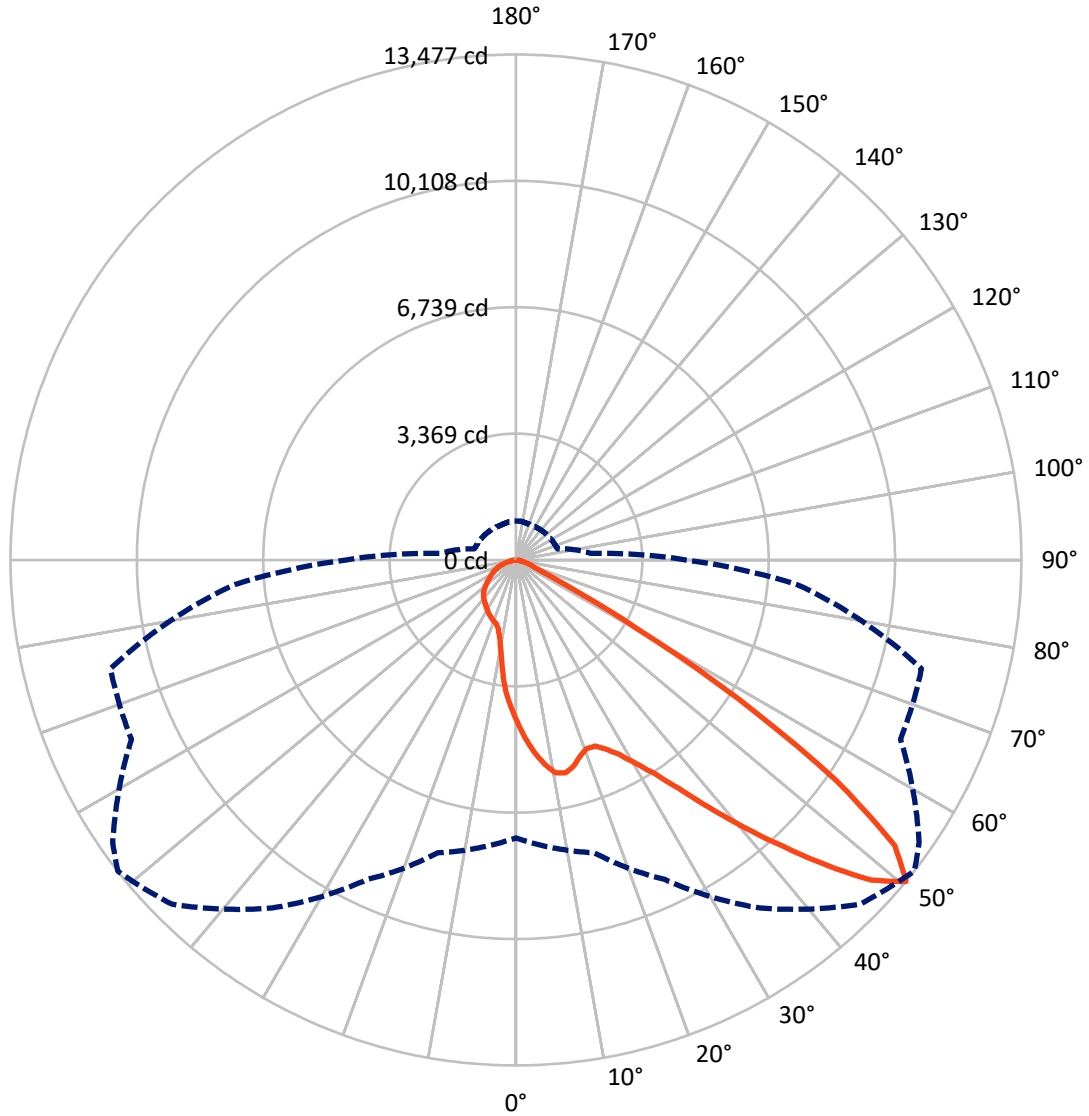
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
<b>House Side</b>	Lumens	2879.6	0.0	2879.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	12439.4	0.0	12439.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	15319.0	0.0	15319.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	398.0	2.6
10°-20°	1066.7	7.0
20°-30°	1796.9	11.7
30°-40°	3015.4	19.7
40°-50°	4612.7	30.1
50°-60°	3363.1	22.0
60°-70°	748.5	4.9
70°-80°	270.0	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°	15319.0	100.0
0°-180°	15319.0	100.0

**Coefficient of Utilization**

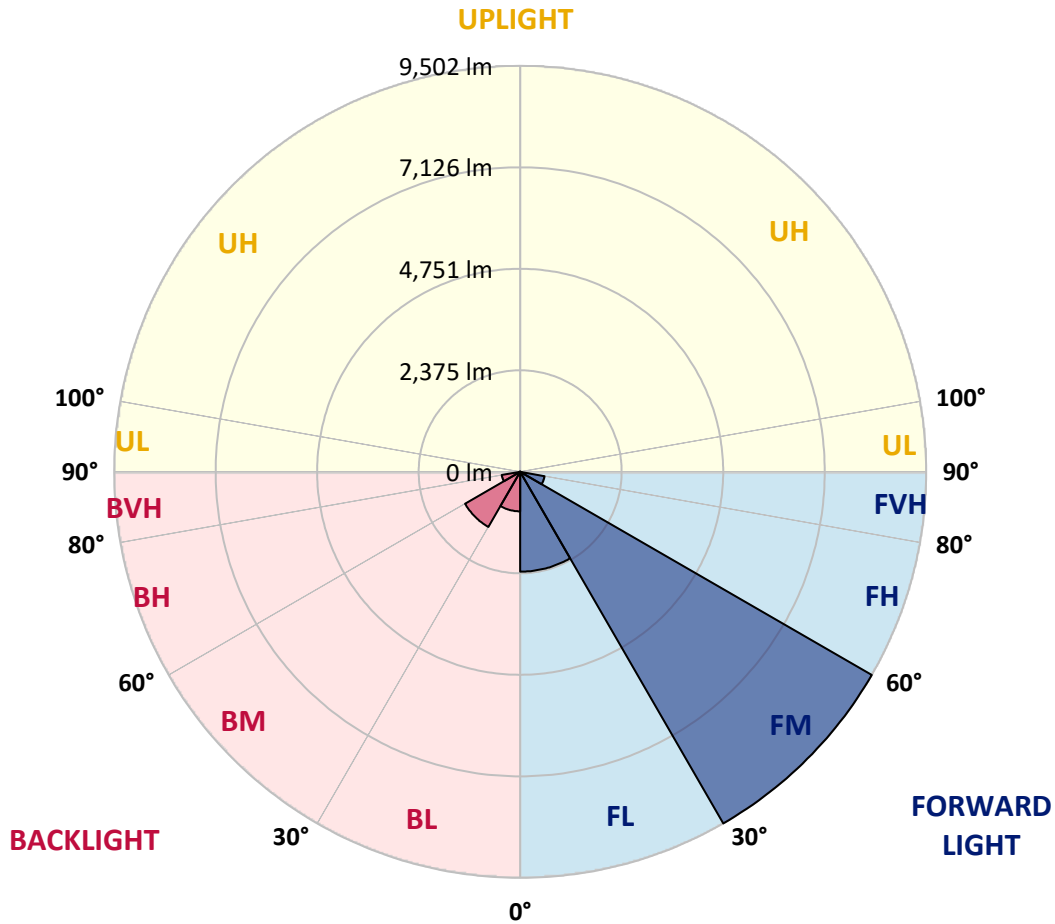


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2336.7	15.3			
FM (30°-60°)	9501.6	62.0			
FH (60°-80°)	579.7	3.8			G0/660
FVH (80°-90°)	21.4	0.1			G1/100
BL (0°-30°)	925.0	6.0	B2/1000		
BM (30°-60°)	1489.5	9.7	B2/2500		
BH (60°-80°)	438.7	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°	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2
2.5°	5084.3	4986.5	4997.6	4927.4	4851.7	4829.6	4752.0	4678.2	4622.8	4504.6	4395.7
5°	5556.9	5527.4	5483.1	5427.7	5370.5	5230.2	5150.8	5058.5	4855.4	4672.6	4491.7
7.5°	5625.3	5619.7	5643.7	5643.7	5664.0	5610.5	5497.9	5433.3	5217.3	4920.0	4584.0
10°	5145.3	5161.9	5278.2	5429.6	5640.0	5785.9	5767.4	5750.8	5514.5	5108.3	4692.9
12.5°	4763.1	4726.2	4794.5	4923.7	5239.4	5592.0	5830.2	5832.0	5771.1	5409.3	4772.3
15°	4547.1	4572.9	4591.4	4652.3	4890.5	5298.5	5717.6	5841.3	6108.9	5621.6	4897.9
17.5°	4685.6	4598.8	4595.1	4609.9	4731.7	5038.2	5508.9	5721.3	6293.6	5894.8	5052.9
20°	4866.5	4864.6	4812.9	4794.5	4792.6	5065.9	5372.3	5660.3	6391.4	6249.3	5209.9
22.5°	5184.0	5184.0	5099.1	5058.5	4971.7	5195.1	5390.8	5586.5	6553.9	6493.0	5285.6
25°	5715.7	5628.9	5483.1	5383.4	5333.6	5412.9	5586.5	5761.9	6696.0	6751.4	5442.5
27.5°	6206.8	6070.2	5998.2	5826.5	5760.0	5713.9	5872.6	6049.9	6862.2	7153.9	5527.4
30°	6764.3	6740.3	6611.1	6389.6	6225.3	6140.3	6286.2	6461.6	7166.8	7565.6	5723.1
32.5°	7761.3	7543.4	7368.0	7096.6	6829.0	6648.0	6792.0	6908.3	7672.6	7995.7	5937.3
35°	8837.6	8767.4	8464.7	7975.4	7565.6	7403.1	7488.0	7574.8	8261.6	8653.0	6297.3
37.5°	9895.4	9799.4	9550.2	9138.5	8640.0	8309.6	8370.5	8472.0	8922.5	9539.1	6736.6
40°	10656.0	10537.9	10412.4	10351.4	9856.7	9404.3	9369.3	9395.1	9816.0	10369.9	7224.0
42.5°	10711.4	10857.3	10896.0	11141.6	11025.3	10654.2	10438.2	10443.7	10669.0	11191.4	7717.0
45°	10595.1	10460.4	10746.5	11416.7	11800.7	11974.2	11610.5	11564.4	11197.0	11667.7	7962.5
47.5°	9374.8	9411.7	9895.4	10955.1	12064.7	12840.1	12755.1	12601.9	11479.4	11651.1	7923.7
50°	7410.5	7633.9	8082.5	9402.5	11326.2	12976.7	13477.0	13122.5	11311.4	11193.3	7528.6
52.5°	4934.8	5027.1	5322.5	7026.5	9107.1	11599.4	12646.2	12727.4	11156.4	10593.3	7028.3
55°	2196.9	2189.5	2604.9	3670.2	5713.9	8826.5	10333.0	10827.7	10560.0	9982.2	6541.0
57.5°	930.5	961.9	1131.7	1585.9	2809.9	5326.2	7000.6	7434.5	8121.3	8197.0	5017.9
60°	629.5	633.2	679.4	793.8	1176.0	2501.5	3672.0	4192.6	4683.7	4650.5	2662.2
62.5°	494.8	507.7	542.8	588.9	697.8	1135.4	1643.1	1932.9	1964.3	1652.3	1009.9
65°	422.8	424.6	459.7	498.5	546.5	660.9	792.0	806.8	816.0	786.5	742.2
67.5°	348.9	352.6	380.3	424.6	468.9	505.8	542.8	561.2	603.7	686.8	675.7
70°	276.9	282.5	306.5	343.4	384.0	406.2	452.3	468.9	507.7	572.3	598.2
72.5°	210.5	212.3	232.6	258.5	295.4	317.5	356.3	374.8	400.6	456.0	480.0
75°	151.4	156.9	171.7	184.6	190.2	204.9	241.8	262.2	299.1	323.1	324.9
77.5°	79.4	83.1	86.8	86.8	105.2	132.9	156.9	168.0	193.8	212.3	203.1
80°	31.4	33.2	42.5	57.2	73.8	96.0	112.6	118.2	140.3	151.4	156.9
82.5°	18.5	20.3	27.7	40.6	53.5	68.3	81.2	86.8	101.5	114.5	118.2
85°	9.2	11.1	16.6	25.8	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°	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2	4318.2
2.5°	4323.7	4249.9	4181.6	4056.0	3919.4	3880.6	3721.9	3664.6	3624.0	3576.0	3561.2
5°	4345.9	4248.0	4028.3	3775.4	3574.2	3315.7	3145.9	2963.1	2830.2	2796.9	2787.7
7.5°	4392.0	4224.0	3845.6	3463.4	3051.7	2700.9	2433.2	2289.2	2161.9	2154.5	2141.5
10°	4443.7	4152.0	3646.2	3046.2	2520.0	2195.1	2034.5	1971.7	1940.3	1932.9	1929.2
12.5°	4486.2	4137.2	3422.8	2640.0	2143.4	1947.7	1899.7	1894.2	1907.1	1910.8	1918.2
15°	4504.6	4078.2	3153.2	2276.3	1908.9	1836.9	1857.2	1879.4	1888.6	1912.6	1894.2
17.5°	4539.7	4002.5	2820.9	1988.3	1777.9	1790.8	1825.9	1851.7	1866.5	1883.1	1859.1
20°	4558.2	3934.2	2508.9	1816.6	1731.7	1755.7	1803.7	1824.0	1842.5	1849.9	1822.2
22.5°	4541.6	3793.9	2233.9	1678.2	1687.4	1718.8	1761.2	1783.4	1772.3	1742.8	1726.2
25°	4497.2	3596.3	1947.7	1589.5	1624.6	1680.0	1713.2	1696.6	1676.3	1659.7	1654.2
27.5°	4495.4	3354.5	1740.9	1508.3	1571.1	1646.8	1635.7	1620.9	1630.2	1617.2	1602.5
30°	4504.6	3120.0	1571.1	1462.2	1532.3	1569.2	1582.2	1567.4	1578.5	1554.5	1561.9
32.5°	4456.6	2891.1	1460.3	1408.6	1486.2	1484.3	1526.8	1537.9	1512.0	1462.2	1469.5
35°	4476.9	2706.5	1366.2	1384.6	1434.5	1434.5	1467.7	1454.8	1386.5	1356.9	1364.3
37.5°	4617.3	2525.5	1320.0	1351.4	1384.6	1399.4	1388.3	1332.9	1316.3	1316.3	1320.0
40°	4750.2	2370.5	1292.3	1344.0	1338.5	1347.7	1266.5	1272.0	1272.0	1273.9	1264.6
42.5°	4868.3	2265.2	1270.2	1299.7	1308.9	1260.9	1211.1	1205.5	1218.5	1216.6	1209.2
45°	4910.8	2178.5	1238.8	1249.9	1257.2	1177.9	1153.9	1142.8	1157.5	1163.1	1170.5
47.5°	4748.3	2106.5	1203.7	1181.5	1166.8	1115.1	1083.7	1063.4	1081.9	1113.2	1120.6
50°	4539.7	2012.3	1148.3	1105.9	1074.5	1052.3	1030.2	1009.9	1022.8	1044.9	1039.4
52.5°	4231.4	1864.6	1078.2	1033.9	980.3	985.9	965.5	954.5	961.9	961.9	956.3
55°	3792.0	1532.3	960.0	928.6	884.3	899.1	902.8	888.0	873.2	886.2	875.1
57.5°	2588.3	1081.9	856.6	856.6	812.3	832.6	830.8	795.7	760.6	764.3	756.9
60°	1497.2	862.2	790.2	782.8	736.6	753.2	756.9	732.9	679.4	683.1	675.7
62.5°	851.1	736.6	690.5	679.4	670.2	684.9	684.9	653.5	607.4	611.1	603.7
65°	723.7	683.1	616.6	614.8	611.1	614.8	600.0	566.8	526.2	509.5	511.4
67.5°	657.2	631.4	566.8	550.2	539.1	537.2	509.5	478.2	459.7	444.9	443.1
70°	576.0	555.7	507.7	485.5	474.5	448.6	420.9	400.6	374.8	367.4	374.8
72.5°	456.0	454.2	435.7	411.7	387.7	367.4	343.4	315.7	291.7	286.2	273.2
75°	315.7	319.4	323.1	319.4	299.1	273.2	245.5	223.4	193.8	177.2	173.5
77.5°	206.8	212.3	217.8	210.5	197.5	173.5	155.1	127.4	105.2	92.3	90.5
80°	151.4	158.8	162.5	156.9	142.2	123.7	103.4	81.2	64.6	53.5	53.5
82.5°	116.3	123.7	127.4	118.2	103.4	88.6	73.8	57.2	44.3	35.1	33.2
85°	40.6	38.8	46.2	48.0	57.2	53.5	44.3	33.2	25.8	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)