

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: P529944

Luminaire Tested: **GALN-SA5A-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529944
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-SA5A-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA 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: 15191 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

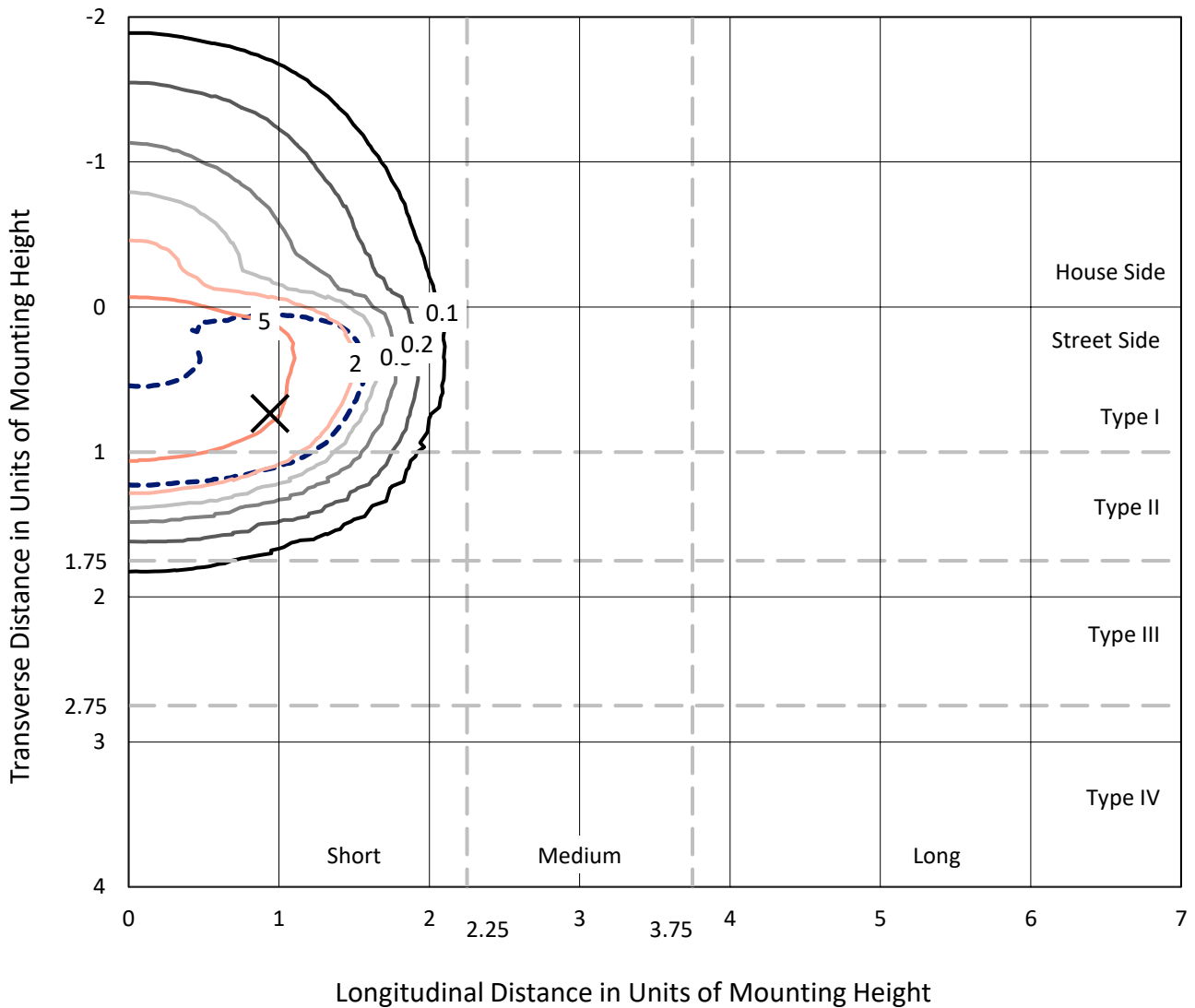
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

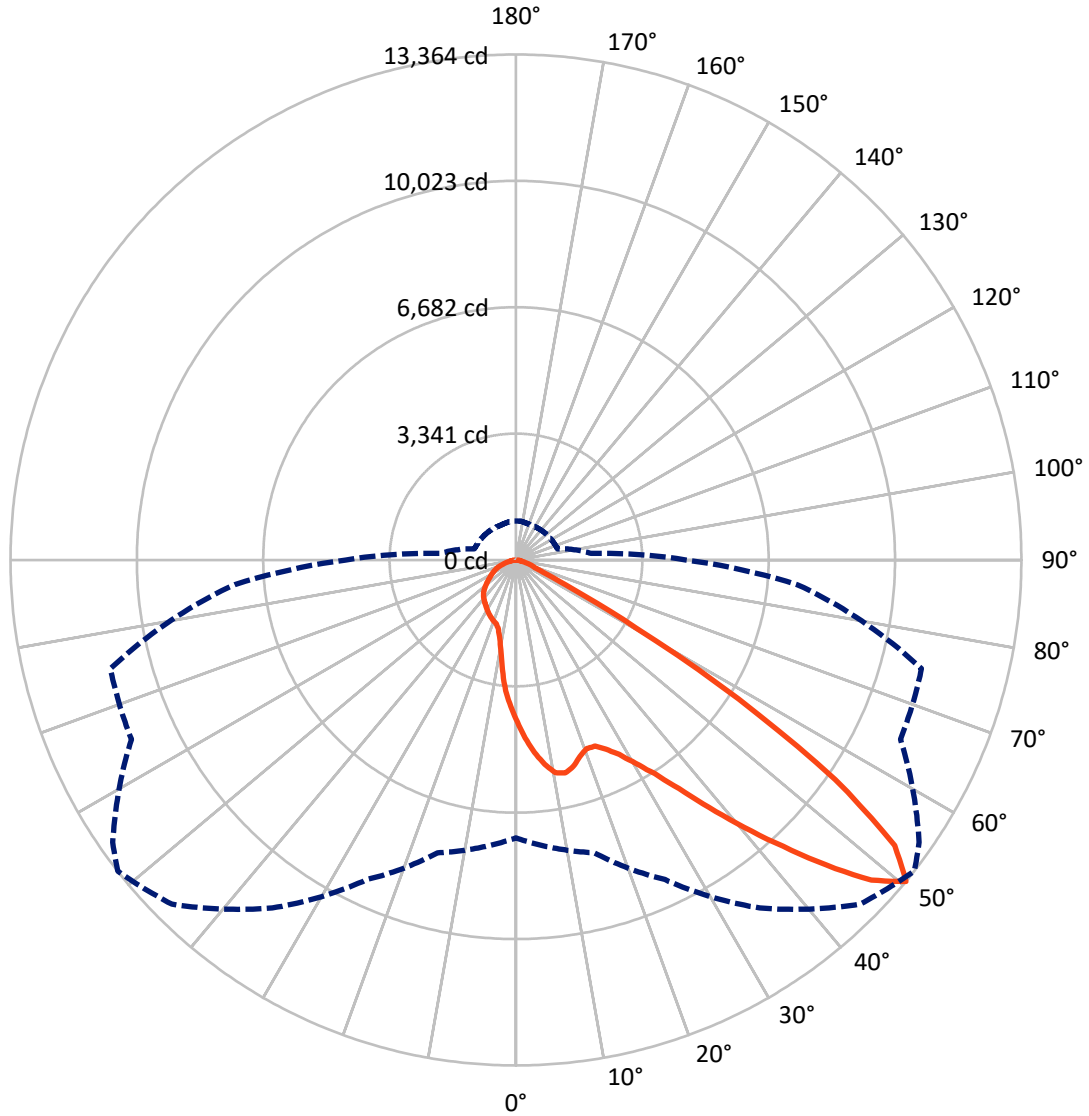
✕ Max cd
 - - - 1/2 Max cd



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	2855.6	0.0	2855.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	12335.5	0.0	12335.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	15191.0	0.0	15191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	394.7	2.6
10°-20°	1057.8	7.0
20°-30°	1781.9	11.7
30°-40°	2990.2	19.7
40°-50°	4574.2	30.1
50°-60°	3335.0	22.0
60°-70°	742.2	4.9
70°-80°	267.7	1.8
80°-90°	47.4	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°	15191.0	100.0
0°-180°	15191.0	100.0

Coefficient of Utilization



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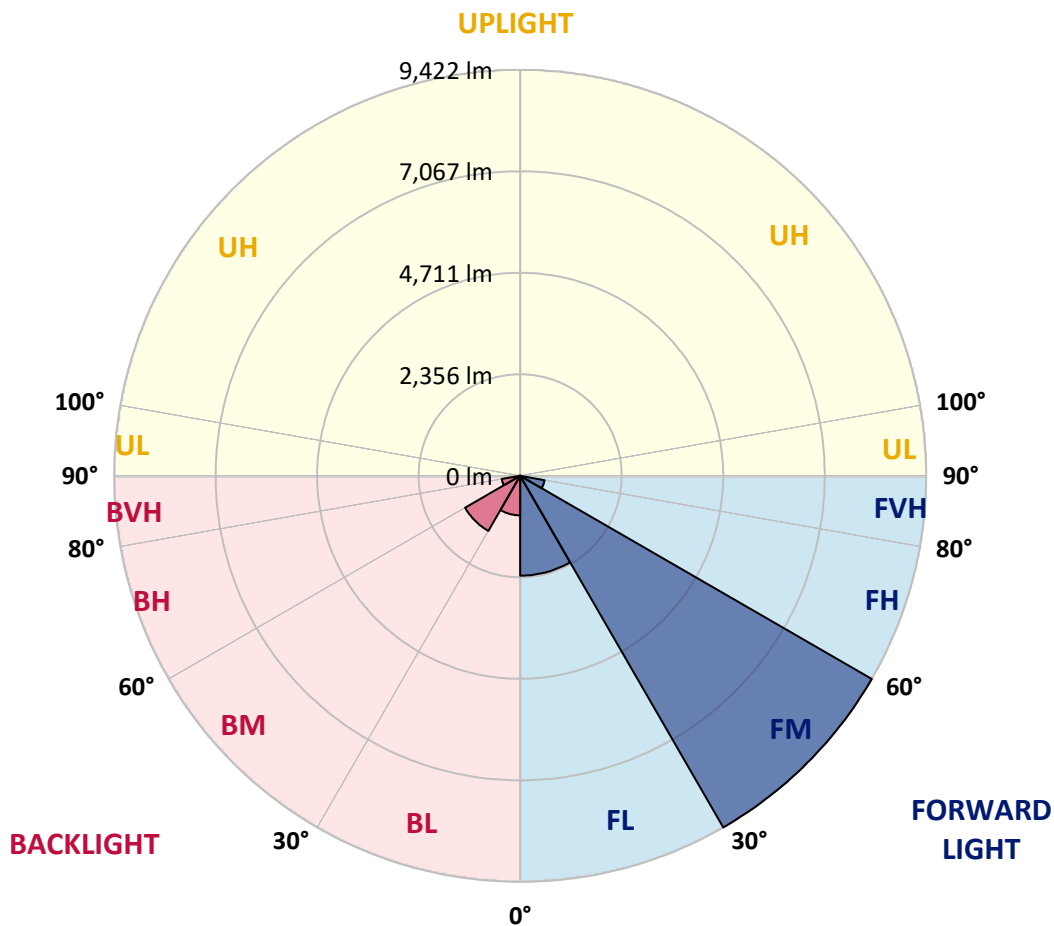
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.1	15.3			
FM (30°-60°)	9422.2	62.0			
FH (60°-80°)	574.8	3.8			G0/660
FVH (80°-90°)	21.2	0.1			G1/100
BL (0°-30°)	917.3	6.0	B2/1000		
BM (30°-60°)	1477.1	9.7	B2/2500		
BH (60°-80°)	435.1	2.9	B1/500		G1/500
BVH (80°-90°)	26.2	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°	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1
2.5°	5041.8	4944.8	4955.8	4886.2	4811.2	4789.2	4712.3	4639.1	4584.2	4467.0	4359.0
5°	5510.5	5481.2	5437.3	5382.4	5325.6	5186.5	5107.8	5016.2	4814.8	4633.6	4454.2
7.5°	5578.3	5572.8	5596.6	5596.6	5616.7	5563.6	5451.9	5387.9	5173.7	4878.9	4545.7
10°	5102.3	5118.7	5234.1	5384.2	5592.9	5737.5	5719.2	5702.7	5468.4	5065.6	4653.7
12.5°	4723.3	4686.7	4754.4	4882.6	5195.6	5545.3	5781.5	5783.3	5722.9	5364.1	4732.5
15°	4509.1	4534.7	4553.0	4613.5	4849.6	5254.2	5669.8	5792.4	6057.9	5574.6	4856.9
17.5°	4646.4	4560.4	4556.7	4571.3	4692.2	4996.1	5462.9	5673.5	6241.0	5845.5	5010.7
20°	4825.8	4824.0	4772.7	4754.4	4752.6	5023.5	5327.4	5613.0	6338.0	6197.0	5166.3
22.5°	5140.7	5140.7	5056.5	5016.2	4930.2	5151.7	5345.7	5539.8	6499.1	6438.7	5241.4
25°	5668.0	5581.9	5437.3	5338.4	5289.0	5367.7	5539.8	5713.7	6640.1	6695.0	5397.0
27.5°	6154.9	6019.5	5948.1	5777.8	5711.9	5666.1	5823.6	5999.3	6804.8	7094.1	5481.2
30°	6707.8	6684.0	6555.9	6336.2	6173.2	6089.0	6233.7	6407.6	7106.9	7502.4	5675.3
32.5°	7696.4	7480.4	7306.5	7037.3	6771.9	6592.5	6735.3	6850.6	7608.5	7928.9	5887.6
35°	8763.7	8694.2	8393.9	7908.8	7502.4	7341.3	7425.5	7511.5	8192.5	8580.7	6244.6
37.5°	9812.7	9717.5	9470.4	9062.1	8567.8	8240.1	8300.6	8401.2	8847.9	9459.4	6680.4
40°	10567.0	10449.8	10325.3	10264.9	9774.3	9325.8	9291.0	9316.6	9734.0	10283.2	7163.7
42.5°	10621.9	10766.6	10805.0	11048.5	10933.2	10565.2	10351.0	10356.5	10579.8	11097.9	7652.5
45°	10506.6	10372.9	10656.7	11321.3	11702.1	11874.2	11513.5	11467.7	11103.4	11570.3	7896.0
47.5°	9296.5	9333.1	9812.7	10863.6	11963.9	12732.8	12648.6	12496.6	11383.5	11553.8	7857.5
50°	7348.6	7570.1	8015.0	9323.9	11231.6	12868.2	13364.4	13012.9	11216.9	11099.8	7465.7
52.5°	4893.6	4985.1	5278.0	6967.8	9031.0	11502.5	12540.5	12621.1	11063.1	10504.8	6969.6
55°	2178.6	2171.3	2583.2	3639.5	5666.1	8752.7	10246.6	10737.3	10471.8	9898.8	6486.3
57.5°	922.7	953.8	1122.2	1572.6	2786.4	5281.7	6942.2	7372.4	8053.4	8128.5	4975.9
60°	624.3	627.9	673.7	787.2	1166.2	2480.6	3641.3	4157.6	4644.6	4611.6	2639.9
62.5°	490.6	503.5	538.2	584.0	692.0	1125.9	1629.4	1916.8	1947.9	1638.5	1001.4
65°	419.2	421.1	455.9	494.3	541.9	655.4	785.4	800.0	809.2	779.9	736.0
67.5°	346.0	349.7	377.1	421.1	465.0	501.6	538.2	556.5	598.7	681.0	670.0
70°	274.6	280.1	303.9	340.5	380.8	402.8	448.5	465.0	503.5	567.5	593.2
72.5°	208.7	210.5	230.7	256.3	292.9	314.9	353.3	371.6	397.3	452.2	476.0
75°	150.1	155.6	170.3	183.1	188.6	203.2	239.8	260.0	296.6	320.4	322.2
77.5°	78.7	82.4	86.0	86.0	104.4	131.8	155.6	166.6	192.2	210.5	201.4
80°	31.1	33.0	42.1	56.8	73.2	95.2	111.7	117.2	139.1	150.1	155.6
82.5°	18.3	20.1	27.5	40.3	53.1	67.7	80.6	86.0	100.7	113.5	117.2
85°	9.2	11.0	16.5	25.6	34.8	42.1	40.3	38.4	38.4	36.6	38.4
87.5°	3.7	3.7	5.5	5.5	5.5	7.3	9.2	9.2	9.2	11.0	11.0
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°	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1
2.5°	4287.6	4214.4	4146.6	4022.1	3886.7	3848.2	3690.8	3634.0	3593.7	3546.1	3531.5
5°	4309.6	4212.5	3994.7	3743.9	3544.3	3288.0	3119.6	2938.3	2806.5	2773.6	2764.4
7.5°	4355.3	4188.7	3813.4	3434.5	3026.2	2678.4	2412.9	2270.1	2143.8	2136.5	2123.7
10°	4406.6	4117.3	3615.7	3020.7	2499.0	2176.7	2017.5	1955.2	1924.1	1916.8	1913.1
12.5°	4448.7	4102.7	3394.2	2618.0	2125.5	1931.4	1883.8	1878.3	1891.2	1894.8	1902.1
15°	4467.0	4044.1	3126.9	2257.3	1893.0	1821.6	1841.7	1863.7	1872.8	1896.6	1878.3
17.5°	4501.8	3969.0	2797.4	1971.7	1763.0	1775.8	1810.6	1836.2	1850.9	1867.4	1843.6
20°	4520.1	3901.3	2488.0	1801.4	1717.2	1741.0	1788.6	1808.8	1827.1	1834.4	1806.9
22.5°	4503.6	3762.2	2215.2	1664.1	1673.3	1704.4	1746.5	1768.5	1757.5	1728.2	1711.7
25°	4459.7	3566.3	1931.4	1576.3	1611.0	1666.0	1698.9	1682.4	1662.3	1645.8	1640.3
27.5°	4457.8	3326.4	1726.4	1495.7	1558.0	1633.0	1622.0	1607.4	1616.5	1603.7	1589.1
30°	4467.0	3093.9	1558.0	1449.9	1519.5	1556.1	1568.9	1554.3	1565.3	1541.5	1548.8
32.5°	4419.4	2866.9	1448.1	1396.9	1473.7	1471.9	1514.0	1525.0	1499.4	1449.9	1457.3
35°	4439.5	2683.9	1354.7	1373.1	1422.5	1422.5	1455.4	1442.6	1374.9	1345.6	1352.9
37.5°	4578.7	2504.4	1309.0	1340.1	1373.1	1387.7	1376.7	1321.8	1305.3	1305.3	1309.0
40°	4710.5	2350.7	1281.5	1332.8	1327.3	1336.4	1255.9	1261.4	1261.4	1263.2	1254.1
42.5°	4827.7	2246.3	1259.5	1288.8	1298.0	1250.4	1201.0	1195.5	1208.3	1206.5	1199.1
45°	4869.8	2160.3	1228.4	1239.4	1246.7	1168.0	1144.2	1133.2	1147.9	1153.4	1160.7
47.5°	4708.7	2088.9	1193.6	1171.7	1157.0	1105.8	1074.6	1054.5	1072.8	1103.9	1111.3
50°	4501.8	1995.5	1138.7	1096.6	1065.5	1043.5	1021.6	1001.4	1014.2	1036.2	1030.7
52.5°	4196.0	1849.0	1069.1	1025.2	972.1	977.6	957.5	946.5	953.8	953.8	948.3
55°	3760.3	1519.5	952.0	920.9	876.9	891.6	895.2	880.6	865.9	878.8	867.8
57.5°	2566.7	1072.8	849.5	849.5	805.5	825.7	823.8	789.0	754.3	757.9	750.6
60°	1484.7	855.0	783.6	776.2	730.5	746.9	750.6	726.8	673.7	677.4	670.0
62.5°	844.0	730.5	684.7	673.7	664.6	679.2	679.2	648.1	602.3	606.0	598.7
65°	717.6	677.4	611.5	609.6	606.0	609.6	595.0	562.0	521.8	505.3	507.1
67.5°	651.7	626.1	562.0	545.6	534.6	532.7	505.3	474.2	455.9	441.2	439.4
70°	571.2	551.1	503.5	481.5	470.5	444.9	417.4	397.3	371.6	364.3	371.6
72.5°	452.2	450.4	432.1	408.3	384.5	364.3	340.5	313.1	289.3	283.8	270.9
75°	313.1	316.7	320.4	316.7	296.6	270.9	243.5	221.5	192.2	175.8	172.1
77.5°	205.0	210.5	216.0	208.7	195.9	172.1	153.8	126.3	104.4	91.5	89.7
80°	150.1	157.4	161.1	155.6	141.0	122.7	102.5	80.6	64.1	53.1	53.1
82.5°	115.3	122.7	126.3	117.2	102.5	87.9	73.2	56.8	43.9	34.8	33.0
85°	40.3	38.4	45.8	47.6	56.8	53.1	43.9	33.0	25.6	18.3	16.5
87.5°	11.0	11.0	12.8	12.8	11.0	9.2	9.2	9.2	7.3	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)