

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: P530657

Luminaire Tested: **GALN-SA5D-827-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530657  
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-SA5D-827-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 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: 16799 lumens  
Efficiency: N/A  
Efficacy: 54.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

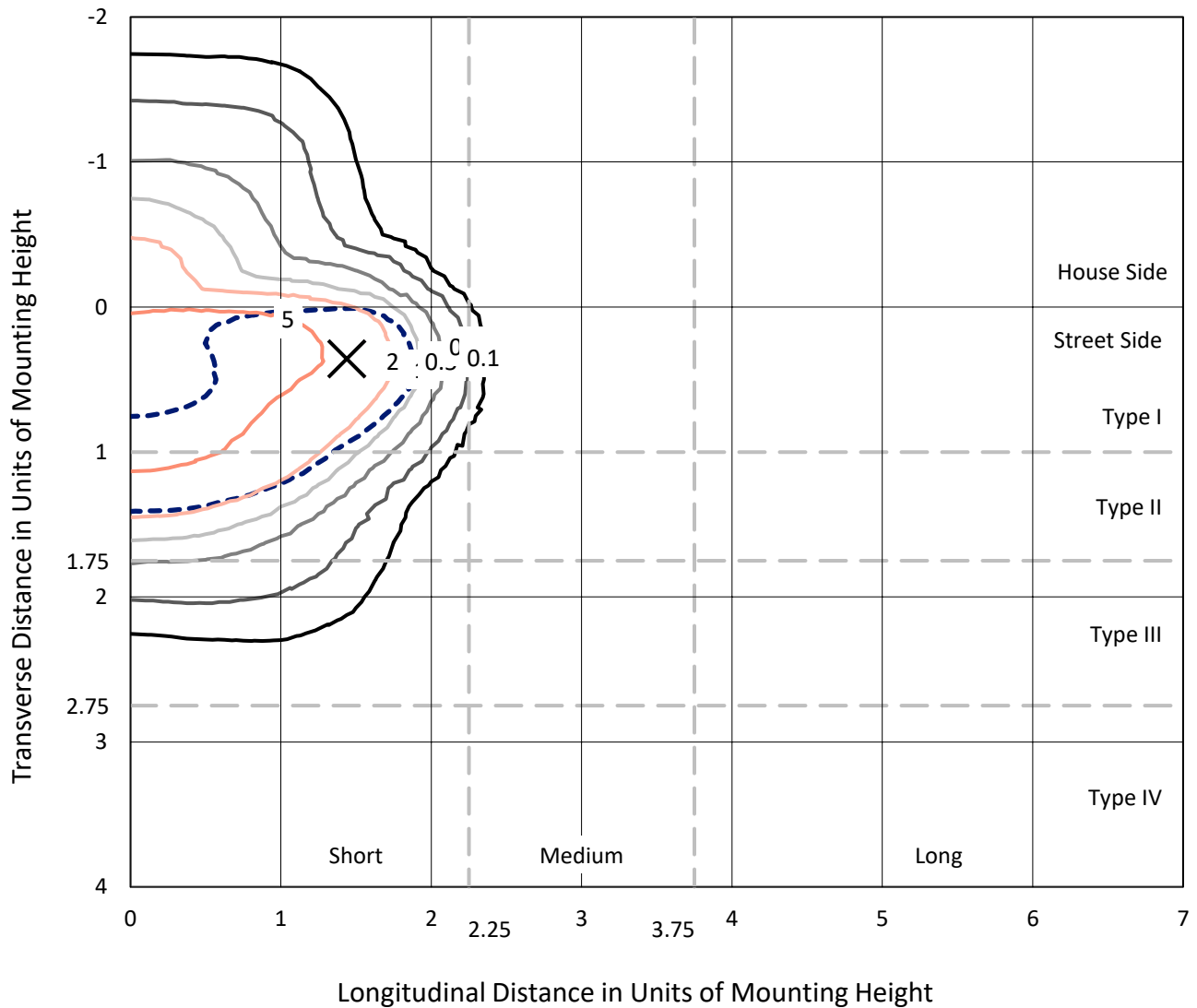
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

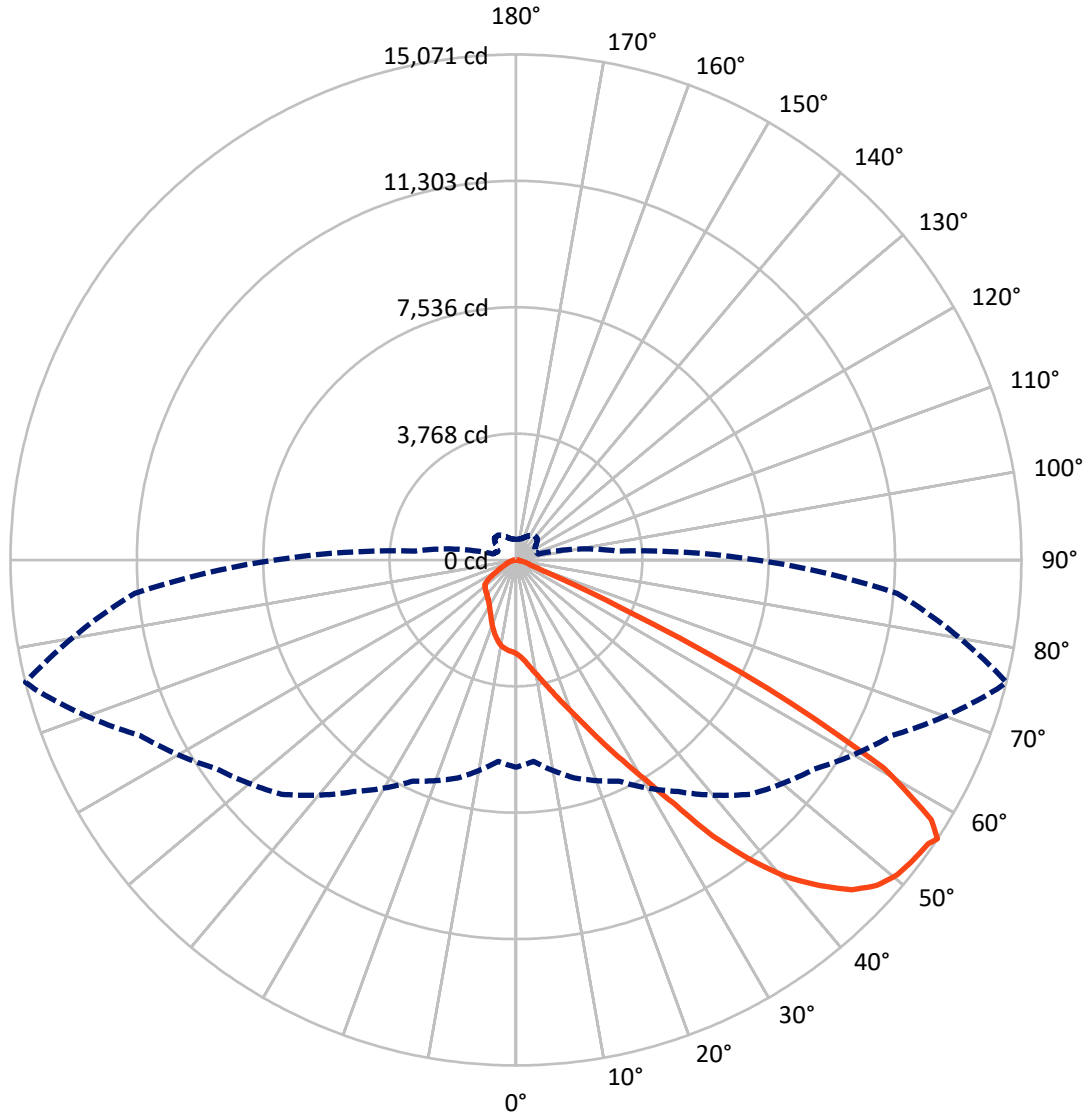
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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
<b>House Side</b>	Lumens	2639.0	0.0	2639.0
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	14160.0	0.0	14160.0
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	16799.0	0.0	16799.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.7	1.7
10°-20°	904.9	5.4
20°-30°	1640.9	9.8
30°-40°	2829.8	16.8
40°-50°	4597.1	27.4
50°-60°	4845.5	28.8
60°-70°	1480.5	8.8
70°-80°	189.8	1.1
80°-90°	28.9	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°	16799.0	100.0
0°-180°	16799.0	100.0

**Coefficient of Utilization**

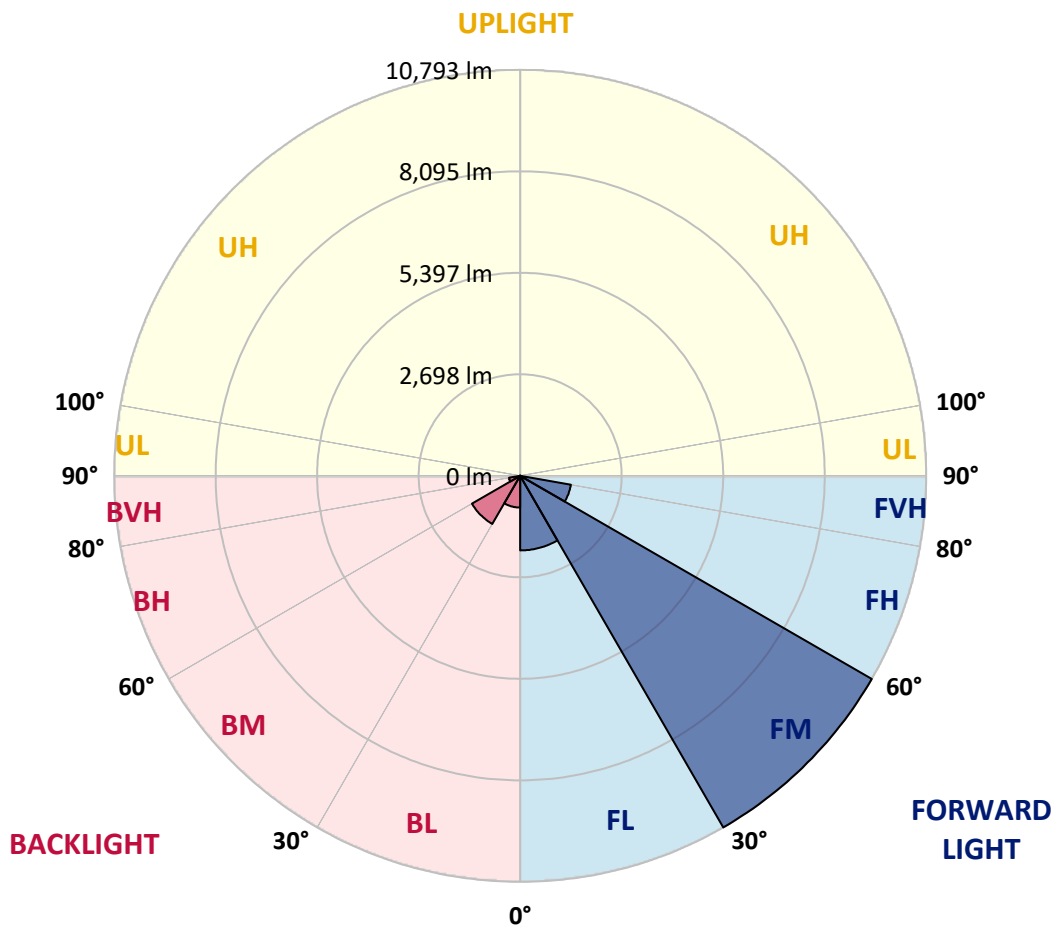


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1983.3	11.8			
FM (30°-60°)	10793.3	64.2			
FH (60°-80°)	1369.2	8.2			G1/1800
FVH (80°-90°)	14.1	0.1			G1/100
BL (0°-30°)	844.2	5.0	B2/1000		
BM (30°-60°)	1479.0	8.8	B2/2500		
BH (60°-80°)	301.1	1.8	B1/500		G1/500
BVH (80°-90°)	14.7	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2
2.5°	3220.5	3146.1	3149.2	3143.0	3133.7	3099.7	2997.5	2982.0	2913.9	2895.3	2833.4
5°	3607.5	3542.5	3579.7	3523.9	3471.3	3440.3	3273.1	3195.7	3087.3	3047.0	2960.3
7.5°	3849.1	3818.1	3805.7	3808.8	3759.3	3681.8	3607.5	3437.2	3291.7	3260.7	3078.0
10°	3966.7	3948.1	3966.7	3957.4	3979.1	3988.4	3858.3	3756.2	3542.5	3489.9	3205.0
12.5°	3994.6	4031.8	4047.2	4087.5	4140.1	4229.9	4220.6	4081.3	3796.4	3762.4	3400.1
15°	4062.7	4093.7	4078.2	4143.2	4242.3	4394.1	4474.6	4452.9	4146.3	4084.4	3626.1
17.5°	4124.7	4068.9	4121.6	4251.6	4350.7	4582.9	4778.0	4867.8	4527.2	4456.0	3833.6
20°	4208.3	4192.8	4183.5	4248.5	4425.0	4734.7	5121.8	5285.9	4954.5	4880.2	4130.8
22.5°	4462.2	4465.3	4459.1	4363.1	4490.1	4840.0	5422.1	5827.8	5465.5	5403.5	4468.4
25°	4796.6	4756.4	4725.4	4648.0	4632.5	4936.0	5725.6	6490.4	6078.6	6035.2	4833.8
27.5°	5149.6	5149.6	5056.7	4985.5	4886.4	5174.4	6004.3	7134.5	6818.7	6759.9	5152.7
30°	5533.6	5555.3	5542.9	5391.2	5329.2	5434.5	6289.2	7958.2	7667.2	7592.8	5679.1
32.5°	6100.3	6053.8	6106.5	5979.5	5796.8	5889.7	6738.2	8695.2	8769.5	8664.3	6369.7
35°	6849.7	6821.8	6787.7	6580.2	6363.5	6437.8	7373.0	9602.5	10153.7	10101.1	7066.4
37.5°	7521.6	7506.1	7478.3	7335.8	7085.0	7174.8	8094.5	10547.0	11503.8	11330.4	8051.1
40°	8227.6	8311.2	8221.4	8094.5	7865.3	8063.5	8942.9	11107.5	12640.3	12429.7	8803.6
42.5°	9184.5	9119.5	9159.7	8927.5	8803.6	9020.4	9794.5	11667.9	13522.8	13272.0	9602.5
45°	10203.3	10206.4	10098.0	10023.7	9701.6	9937.0	10317.8	11977.6	14225.7	14030.6	10206.4
47.5°	10856.6	10853.5	10971.2	11088.9	10757.5	10525.3	10673.9	12271.8	14588.0	14498.2	10426.2
50°	10754.4	10785.4	10937.1	11376.9	11550.3	11237.5	11008.4	12185.1	14752.1	14742.9	10615.1
52.5°	9354.8	9457.0	9710.9	10345.7	11218.9	11606.0	11358.3	12346.1	14832.7	14848.1	10896.9
55°	7122.2	7177.9	7661.0	8432.0	9398.1	10723.5	11218.9	12473.1	14894.6	14922.5	11237.5
56°	6177.7	6029.1	6725.8	7273.9	8428.9	9878.1	10865.9	12374.0	14857.4	15071.1	11407.8
57.5°	4663.5	4564.4	5127.9	5812.3	6924.0	8453.7	9769.7	11906.4	14606.6	14603.5	11163.2
60°	2836.5	2737.4	3170.9	3573.5	4195.9	5205.4	6601.9	9481.8	12349.2	12609.3	9038.9
62.5°	1687.6	1749.6	2176.9	2421.5	2622.8	2728.1	3415.5	5635.8	8240.0	8425.8	5607.9
65°	1124.1	1145.7	1467.8	1870.3	1960.1	1560.7	1390.4	2282.2	3573.5	3458.9	2313.2
67.5°	693.6	743.2	984.7	1405.9	1557.6	1139.5	659.6	851.6	984.7	984.7	668.9
70°	421.1	445.9	656.5	956.8	1068.3	733.9	480.0	480.0	473.8	464.5	399.5
72.5°	201.3	216.8	334.4	492.4	501.6	387.1	371.6	405.7	396.4	393.3	331.3
75°	86.7	92.9	117.7	154.8	176.5	164.1	226.1	291.1	300.4	291.1	238.4
77.5°	27.9	31.0	43.4	55.7	58.8	71.2	96.0	120.8	139.3	130.1	117.7
80°	3.1	6.2	12.4	27.9	43.4	55.7	71.2	80.5	89.8	89.8	83.6
82.5°	3.1	3.1	12.4	24.8	40.3	52.6	68.1	77.4	89.8	92.9	86.7
85°	0.0	3.1	9.3	21.7	34.1	34.1	31.0	31.0	21.7	21.7	21.7
87.5°	0.0	0.0	3.1	3.1	3.1	6.2	6.2	6.2	6.2	6.2	6.2
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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CATALOG NUMBER: GALN-SA5D-827-U-T2-GRSBK

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2	2796.2
2.5°	2821.0	2814.8	2731.2	2678.5	2650.7	2594.9	2560.9	2536.1	2517.5	2495.8	2498.9
5°	2858.2	2836.5	2697.1	2601.1	2486.6	2424.6	2372.0	2328.6	2300.8	2294.6	2282.2
7.5°	2963.4	2848.9	2638.3	2464.9	2319.3	2257.4	2211.0	2183.1	2195.5	2167.6	2189.3
10°	3043.9	2873.6	2567.1	2316.2	2170.7	2124.3	2099.5	2121.2	2152.1	2139.7	2124.3
12.5°	3143.0	2898.4	2452.5	2173.8	2037.6	2003.5	2046.8	2087.1	2149.0	2173.8	2142.8
15°	3254.5	2926.3	2307.0	2009.7	1923.0	1950.9	2025.2	2096.4	2158.3	2189.3	2207.9
17.5°	3390.8	2917.0	2164.5	1879.6	1814.6	1895.1	1984.9	2049.9	2142.8	2189.3	2176.9
20°	3517.7	2886.0	2006.6	1749.6	1752.7	1827.0	1901.3	2006.6	2056.1	2118.1	2096.4
22.5°	3638.5	2830.3	1842.5	1659.8	1659.8	1774.3	1811.5	1879.6	1923.0	1953.9	1950.9
25°	3808.8	2725.0	1706.2	1573.1	1610.2	1684.5	1715.5	1737.2	1718.6	1743.4	1746.5
27.5°	3929.6	2616.6	1594.7	1495.7	1563.8	1619.5	1610.2	1597.8	1554.5	1520.4	1542.1
30°	4059.6	2489.7	1498.7	1443.0	1480.2	1529.7	1492.6	1455.4	1387.3	1331.5	1334.6
32.5°	4245.4	2430.8	1415.1	1381.1	1430.6	1436.8	1396.6	1340.8	1272.7	1220.1	1217.0
35°	4592.2	2393.7	1343.9	1340.8	1350.1	1353.2	1313.0	1244.8	1217.0	1173.6	1189.1
37.5°	4939.1	2375.1	1294.4	1282.0	1278.9	1282.0	1235.5	1170.5	1223.2	1220.1	1226.2
40°	5381.9	2458.7	1223.2	1207.7	1210.8	1210.8	1151.9	1133.4	1226.2	1235.5	1238.6
42.5°	5830.9	2564.0	1176.7	1127.2	1139.5	1139.5	1108.6	1086.9	1151.9	1090.0	1080.7
45°	6221.0	2718.8	1127.2	1046.6	1077.6	1093.1	1083.8	1046.6	1006.4	901.1	901.1
47.5°	6348.0	2855.1	1068.3	969.2	994.0	1062.1	1034.3	956.8	885.6	798.9	792.7
50°	6571.0	3003.7	1021.9	879.4	932.1	1015.7	987.8	910.4	829.9	768.0	771.1
52.5°	6800.1	3174.0	935.2	774.1	839.2	978.5	978.5	891.8	768.0	724.6	718.4
55°	7143.8	3167.8	780.3	634.8	749.4	922.8	938.3	798.9	687.4	653.4	653.4
56°	7193.4	3025.4	702.9	594.5	709.1	907.3	910.4	774.1	656.5	619.3	619.3
57.5°	6821.8	2731.2	616.2	545.0	659.6	879.4	882.5	752.5	631.7	579.1	572.9
60°	5248.7	1848.7	514.0	486.2	597.6	792.7	808.2	684.3	554.3	514.0	510.9
62.5°	2963.4	1025.0	452.1	439.7	514.0	675.1	721.5	597.6	470.7	449.0	455.2
65°	1353.2	563.6	380.9	356.1	414.9	520.2	582.2	492.4	387.1	362.3	362.3
67.5°	495.5	384.0	325.1	281.8	291.1	337.5	377.8	318.9	257.0	219.9	229.1
70°	353.0	322.0	284.9	244.6	226.1	219.9	216.8	179.6	127.0	99.1	105.3
72.5°	284.9	266.3	238.4	207.5	176.5	148.6	127.0	92.9	58.8	40.3	37.2
75°	204.4	195.1	173.4	148.6	123.9	105.3	86.7	58.8	31.0	15.5	15.5
77.5°	105.3	105.3	102.2	92.9	77.4	61.9	49.5	34.1	18.6	6.2	6.2
80°	80.5	86.7	89.8	80.5	71.2	55.7	40.3	24.8	12.4	3.1	3.1
82.5°	77.4	89.8	96.0	83.6	71.2	52.6	40.3	24.8	12.4	3.1	3.1
85°	18.6	18.6	27.9	31.0	40.3	43.4	34.1	21.7	9.3	3.1	3.1
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1	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)