

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: P530649

Luminaire Tested: **GALN-SA5D-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
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-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16623 lumens  
Efficiency: N/A  
Efficacy: 53.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

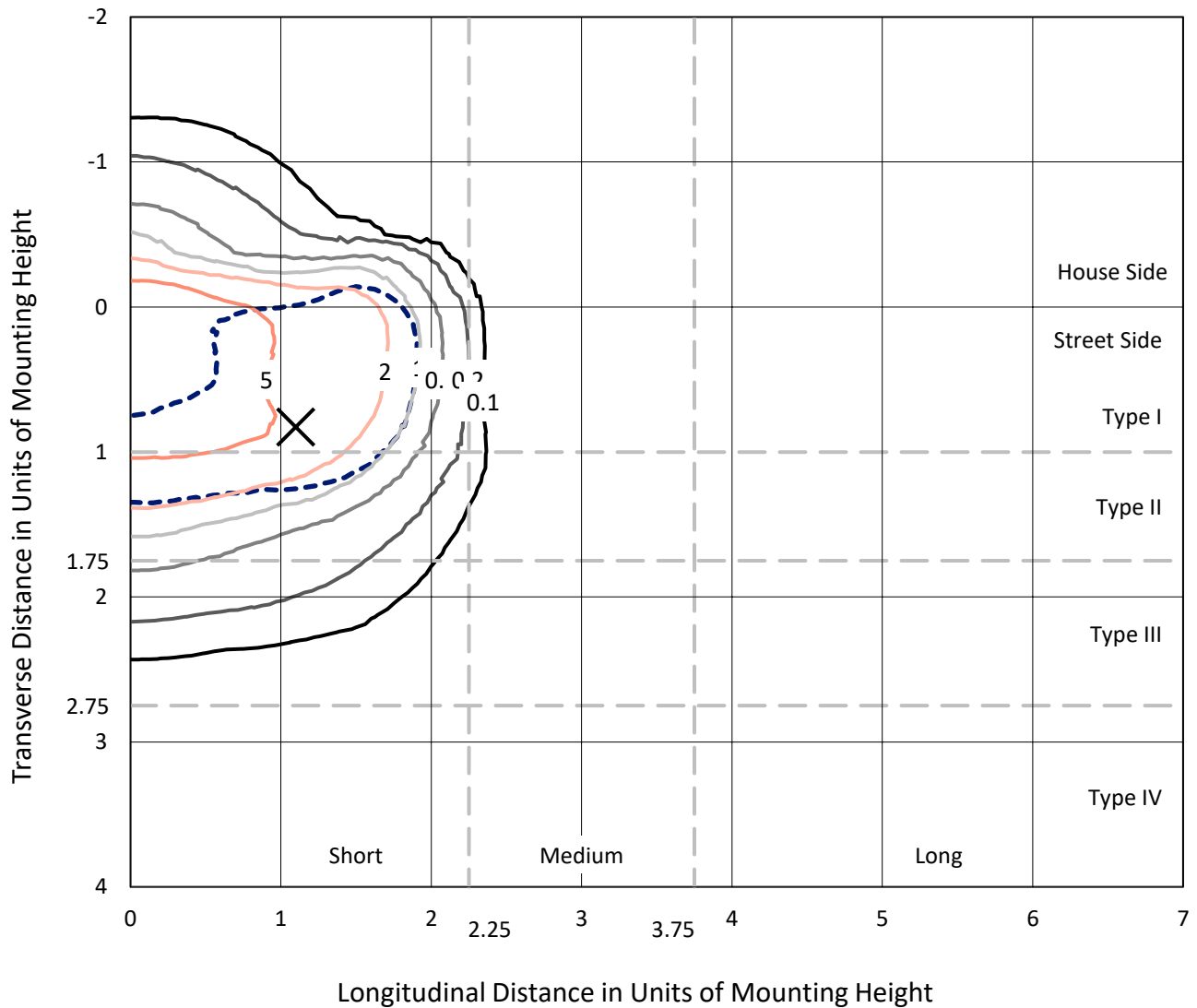
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

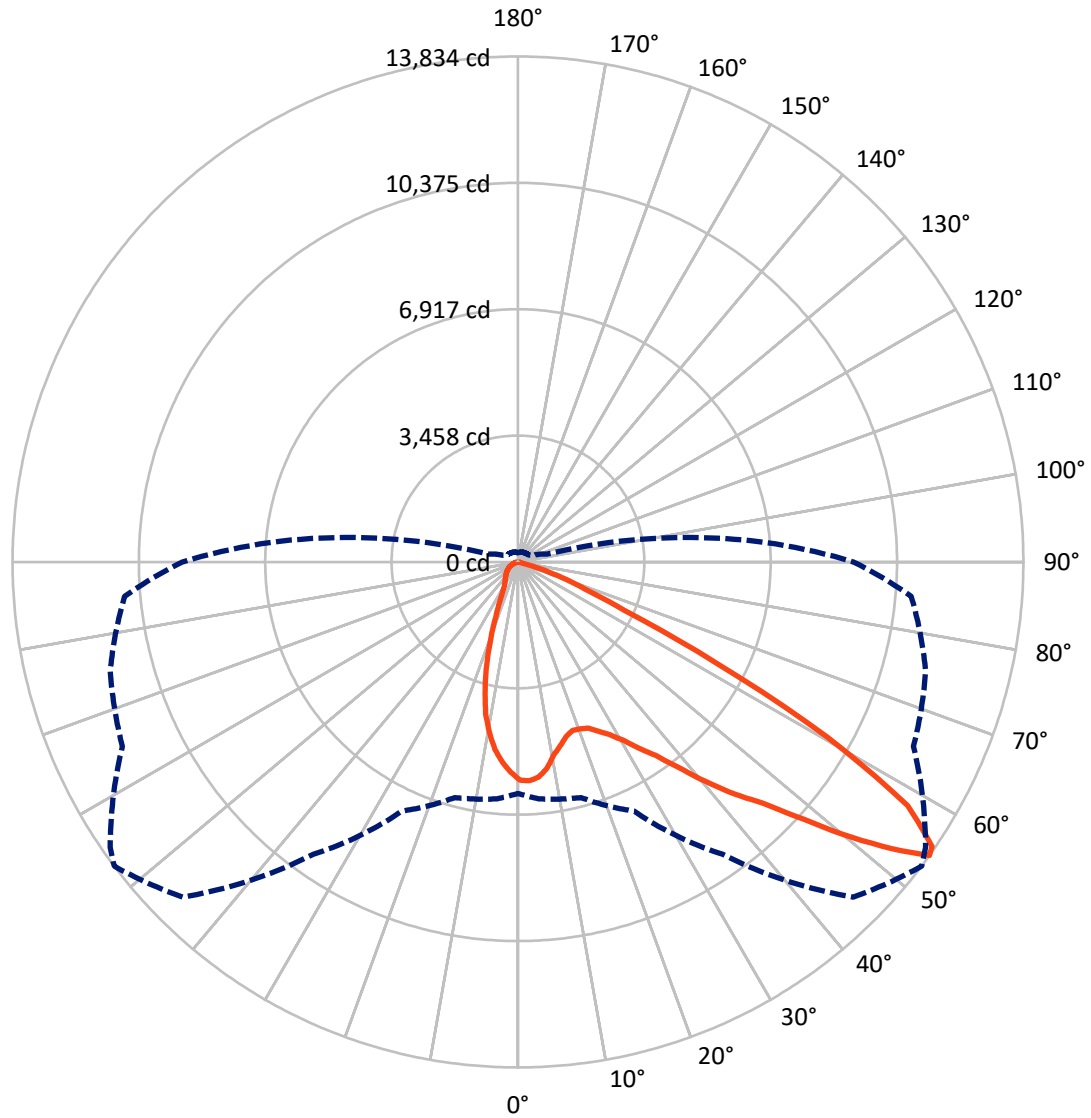
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2750.3	0.0	2750.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	13872.7	0.0	13872.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	16623.0	0.0	16623.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.3	3.1
10°-20°	1174.5	7.1
20°-30°	1669.2	10.0
30°-40°	2576.0	15.5
40°-50°	4038.9	24.3
50°-60°	4691.8	28.2
60°-70°	1772.8	10.7
70°-80°	168.6	1.0
80°-90°	19.0	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°	16623.0	100.0
0°-180°	16623.0	100.0

**Coefficient of Utilization**



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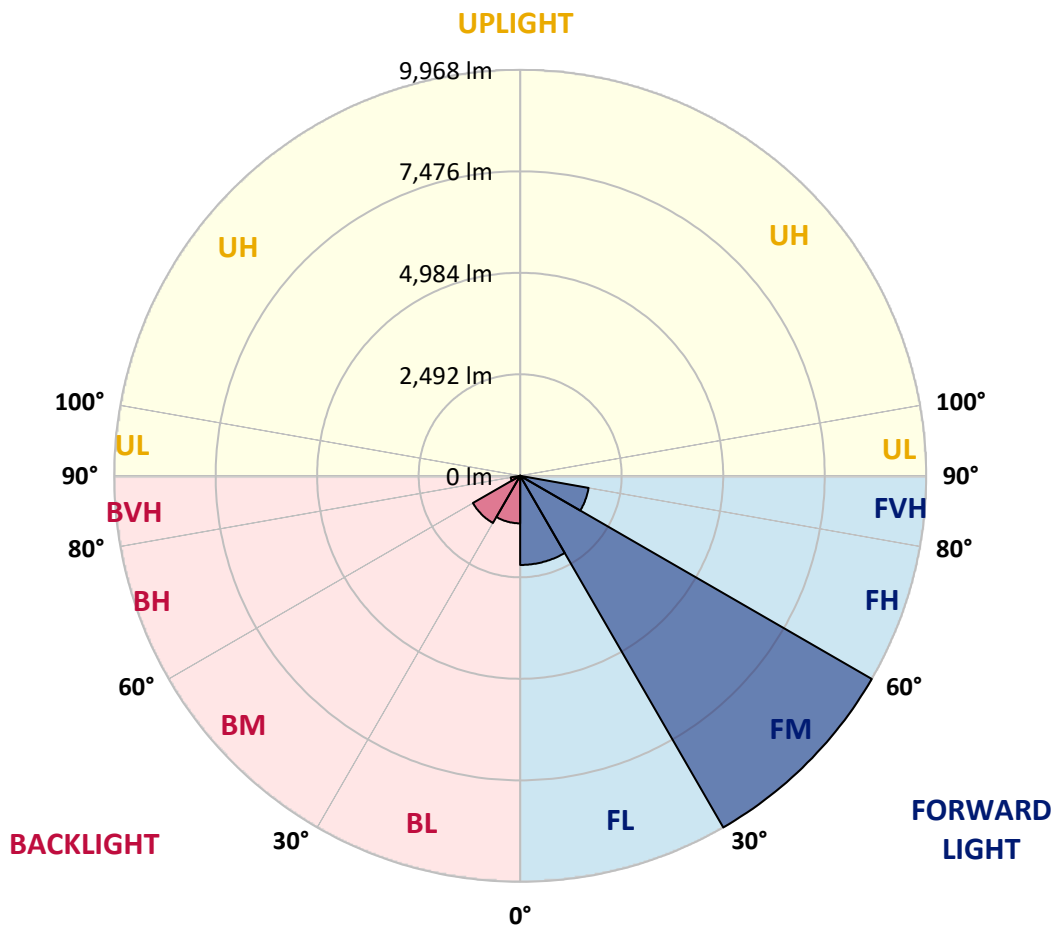
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2188.8	13.2			
FM (30°-60°)	9968.3	60.0			
FH (60°-80°)	1705.8	10.3			G1/1800
FVH (80°-90°)	9.8	0.1			G0/10
BL (0°-30°)	1167.1	7.0	B3/2500		
BM (30°-60°)	1338.4	8.1	B2/2500		
BH (60°-80°)	235.6	1.4	B1/500		G1/500
BVH (80°-90°)	9.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7
2.5°	5939.7	5887.1	5939.7	5945.9	5983.1	6017.2	5995.5	6045.0	6017.2	5986.2	5976.9
5°	5459.7	5531.0	5534.0	5645.5	5620.8	5825.2	5915.0	5890.2	6041.9	6032.6	6011.0
7.5°	5029.3	5001.4	5038.6	5168.6	5332.8	5568.1	5698.2	5695.1	5911.9	6066.7	6051.2
10°	4629.8	4626.7	4704.1	4806.3	4945.6	5193.4	5373.0	5462.8	5800.4	6035.7	6069.8
12.5°	4360.3	4348.0	4431.6	4515.2	4735.1	4927.1	5156.2	5199.6	5586.7	5927.3	5983.1
15°	4183.8	4211.7	4217.9	4378.9	4518.3	4772.2	4951.8	5041.7	5487.6	5840.6	6054.3
17.5°	4152.9	4190.0	4193.1	4326.3	4474.9	4688.6	4846.5	4967.3	5404.0	5884.0	6057.4
20°	4214.8	4193.1	4211.7	4295.3	4440.9	4645.3	4874.4	4914.7	5376.1	5905.7	6091.5
22.5°	4391.3	4385.1	4338.7	4406.8	4509.0	4722.7	4939.5	5001.4	5456.6	6017.2	6119.3
25°	4586.4	4620.5	4577.1	4567.8	4639.1	4849.6	5137.7	5218.2	5726.1	6218.4	6206.1
27.5°	4951.8	4917.8	4917.8	4874.4	4855.8	4958.0	5351.3	5484.5	6026.4	6478.6	6305.2
30°	5301.8	5338.9	5311.1	5326.6	5202.7	5193.4	5654.8	5819.0	6559.1	6875.0	6515.7
32.5°	5856.1	5806.6	5853.0	5812.8	5648.6	5481.4	6066.7	6237.0	7203.2	7330.2	6831.6
35°	6317.5	6295.9	6494.1	6487.9	6221.5	6057.4	6503.4	6757.3	7652.3	7875.3	7203.2
37.5°	6974.1	6933.8	7159.9	7268.3	7029.8	6785.2	7128.9	7423.1	8070.4	8311.9	7584.2
40°	7649.2	7751.4	8054.9	8234.5	7980.5	7655.4	7893.8	7983.6	8349.1	8596.8	7844.3
42.5°	8503.9	8652.6	8962.2	9117.1	9095.4	8742.4	8671.1	8668.0	8550.4	8516.3	8036.3
45°	9324.6	9268.8	9745.7	10083.3	10355.8	10253.6	9420.6	9327.7	8869.3	8637.1	8085.8
47.5°	9683.8	9665.2	9990.4	10591.2	11520.2	11647.2	10510.7	10151.4	9408.2	9145.0	8355.3
50°	9219.3	9315.3	9637.4	10303.2	11727.7	12697.0	11848.5	11365.4	10036.8	9764.3	8993.2
52.5°	7701.8	7766.9	8073.5	8918.9	11021.6	13316.4	13130.6	12851.9	11192.0	10739.8	10105.0
54°	6333.0	6506.5	6673.7	7522.2	9764.3	12972.6	13833.6	13619.9	11944.5	11551.2	10804.9
55°	5515.5	5617.7	5738.4	6583.9	8894.1	12390.4	13753.1	13771.6	12449.3	11805.1	11275.6
57.5°	4029.0	4100.2	3976.3	4351.1	6107.0	10061.6	12579.4	13081.0	13130.6	12186.1	11563.6
60°	3078.3	3109.2	2969.9	3028.7	3796.7	6905.9	9730.3	10334.1	11845.4	10650.0	9795.3
62.5°	2387.7	2393.9	2390.8	2493.0	2616.8	4063.0	6085.3	6621.0	8166.4	7562.5	6652.0
65°	1759.0	1731.1	1780.7	2090.4	2232.8	2554.9	3205.2	3595.4	4437.8	3747.2	2678.8
67.5°	1139.6	1148.9	1198.5	1554.6	1913.8	1960.3	1972.7	1941.7	1944.8	1071.5	672.0
70°	684.4	699.9	684.4	879.5	1368.8	1406.0	1285.2	1254.2	978.6	253.9	250.8
72.5°	405.7	384.0	343.7	377.8	569.8	681.3	613.2	610.1	384.0	148.6	148.6
75°	170.3	154.8	127.0	114.6	151.7	145.6	145.6	130.1	102.2	99.1	92.9
77.5°	34.1	34.1	24.8	27.9	37.2	43.4	52.6	52.6	61.9	61.9	58.8
80°	0.0	3.1	9.3	18.6	27.9	40.3	46.5	46.5	52.6	52.6	43.4
82.5°	0.0	3.1	9.3	18.6	24.8	37.2	46.5	46.5	52.6	55.7	46.5
85°	0.0	3.1	9.3	15.5	24.8	31.0	31.0	27.9	21.7	18.6	12.4
87.5°	0.0	0.0	3.1	6.2	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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7	5970.7
2.5°	5998.6	5995.5	5921.2	5800.4	5772.5	5670.3	5657.9	5596.0	5630.0	5515.5	5503.1
5°	5949.0	5911.9	5822.1	5744.6	5518.6	5357.5	5230.6	5075.7	4985.9	5001.4	4942.6
7.5°	6020.3	5924.2	5766.3	5496.9	5221.3	4939.5	4787.7	4471.8	4357.2	4186.9	4162.1
10°	5945.9	5874.7	5630.0	5184.1	4803.2	4397.5	4041.4	3691.4	3425.1	3310.5	3285.7
12.5°	5939.7	5815.9	5407.1	4911.6	4360.3	3778.1	3261.0	2824.3	2561.1	2412.4	2378.4
15°	5843.7	5695.1	5156.2	4490.4	3728.6	3003.9	2440.3	2019.1	1817.8	1731.1	1755.9
17.5°	5853.0	5630.0	4905.4	4044.5	3106.1	2204.9	1666.1	1449.3	1396.7	1418.4	1418.4
20°	5843.7	5484.5	4601.9	3530.4	2378.4	1529.8	1223.3	1145.8	1179.9	1248.0	1232.5
22.5°	5794.2	5416.4	4323.2	2988.4	1749.7	1133.4	981.7	984.8	1037.4	1121.1	1139.6
25°	5831.3	5264.6	3970.1	2440.3	1275.9	904.3	851.6	873.3	929.1	991.0	1003.4
27.5°	5803.5	5156.2	3601.6	1895.3	932.1	777.3	774.2	799.0	823.8	870.2	870.2
30°	5834.4	5057.1	3239.3	1409.1	768.0	712.3	699.9	718.5	743.2	752.5	749.4
32.5°	5949.0	4982.8	2821.2	1052.9	678.2	650.3	650.3	650.3	647.2	659.6	662.7
35°	6199.9	4995.2	2452.7	814.5	619.4	597.7	588.4	576.0	569.8	576.0	579.1
37.5°	6472.4	4989.0	2071.8	693.7	576.0	557.4	535.8	517.2	514.1	520.3	511.0
40°	6593.2	5047.8	1718.7	622.5	535.8	514.1	480.0	464.5	467.6	473.8	467.6
42.5°	6757.3	5066.4	1489.6	566.7	498.6	464.5	442.8	424.3	421.2	430.5	427.4
45°	6754.2	4961.1	1248.0	535.8	464.5	427.4	399.5	384.0	384.0	390.2	393.3
47.5°	6952.4	4945.6	1071.5	507.9	439.8	402.6	368.5	356.1	353.0	353.0	346.8
50°	7413.8	5162.4	935.2	476.9	408.8	374.7	346.8	331.4	319.0	312.8	309.7
52.5°	8315.0	5837.5	830.0	439.8	374.7	346.8	322.1	309.7	294.2	278.7	275.6
54°	9188.3	6534.3	823.8	408.8	346.8	328.3	306.6	300.4	281.8	260.1	253.9
55°	9581.6	6940.0	845.4	384.0	328.3	315.9	297.3	291.1	272.5	247.7	244.7
57.5°	9906.8	7097.9	833.0	319.0	297.3	294.2	278.7	269.4	247.7	213.7	207.5
60°	7974.4	5366.8	597.7	281.8	272.5	266.3	253.9	247.7	219.9	182.7	179.6
62.5°	5038.6	3087.5	380.9	247.7	238.5	229.2	213.7	207.5	182.7	145.6	136.3
65°	2146.1	1279.0	257.0	219.9	204.4	188.9	176.5	167.2	145.6	108.4	105.3
67.5°	557.4	455.2	213.7	192.0	170.3	148.6	139.4	123.9	99.1	74.3	71.2
70°	250.8	229.2	179.6	161.0	136.3	114.6	102.2	86.7	65.0	49.5	46.5
72.5°	148.6	145.6	136.3	120.8	102.2	86.7	74.3	58.8	43.4	27.9	27.9
75°	92.9	89.8	92.9	83.6	71.2	65.0	55.7	40.3	24.8	12.4	12.4
77.5°	55.7	55.7	55.7	52.6	49.5	49.5	40.3	24.8	12.4	3.1	3.1
80°	43.4	43.4	46.5	43.4	43.4	43.4	34.1	18.6	6.2	0.0	0.0
82.5°	43.4	46.5	52.6	49.5	43.4	37.2	31.0	18.6	6.2	0.0	0.0
85°	12.4	9.3	15.5	21.7	31.0	27.9	21.7	15.5	6.2	0.0	0.0
87.5°	6.2	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1	0.0	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)