

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: P531585

Luminaire Tested: **GALN-SA6D-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531585
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-SA6D-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 19683 lumens
Efficiency: N/A
Efficacy: 53.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

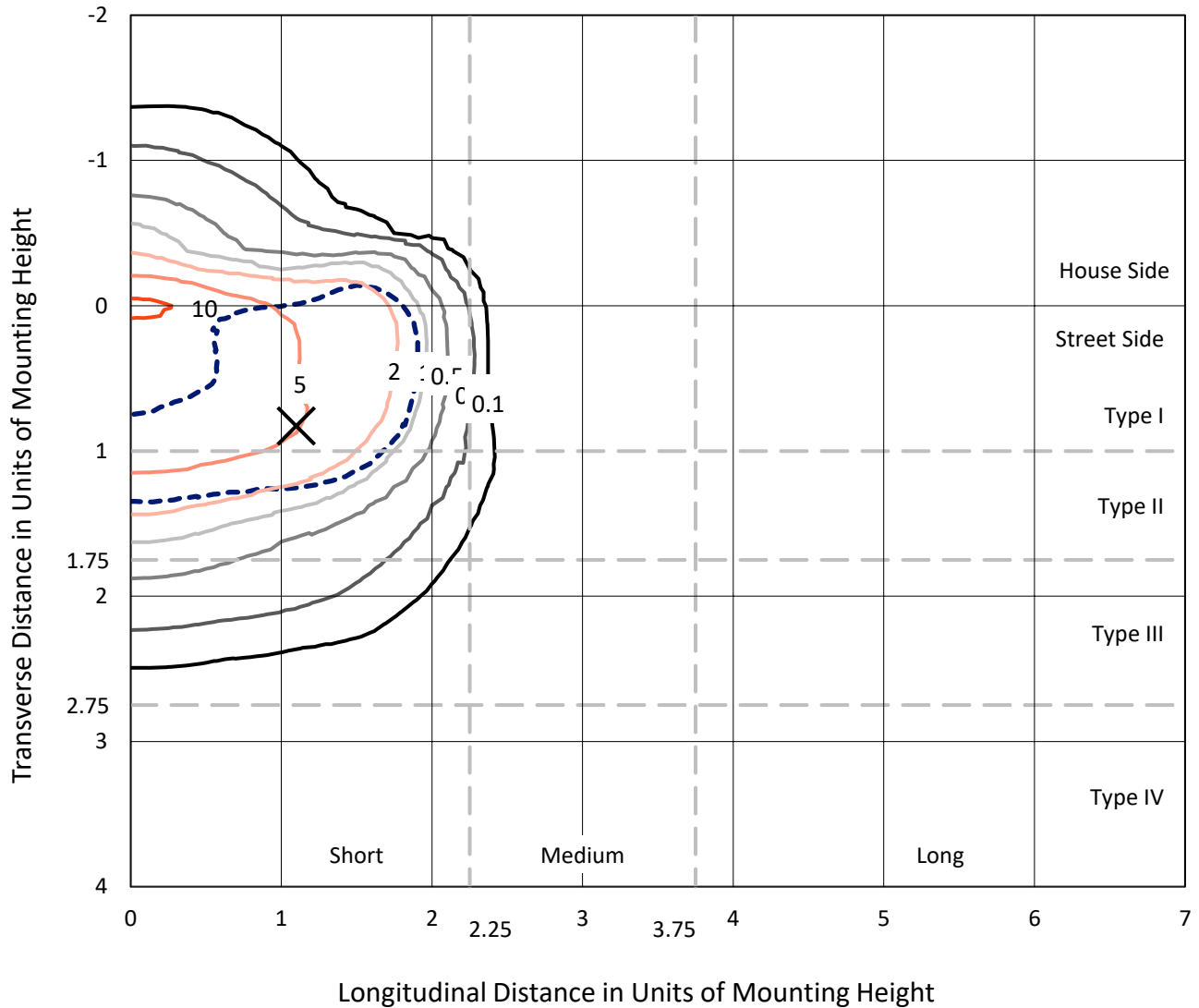
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

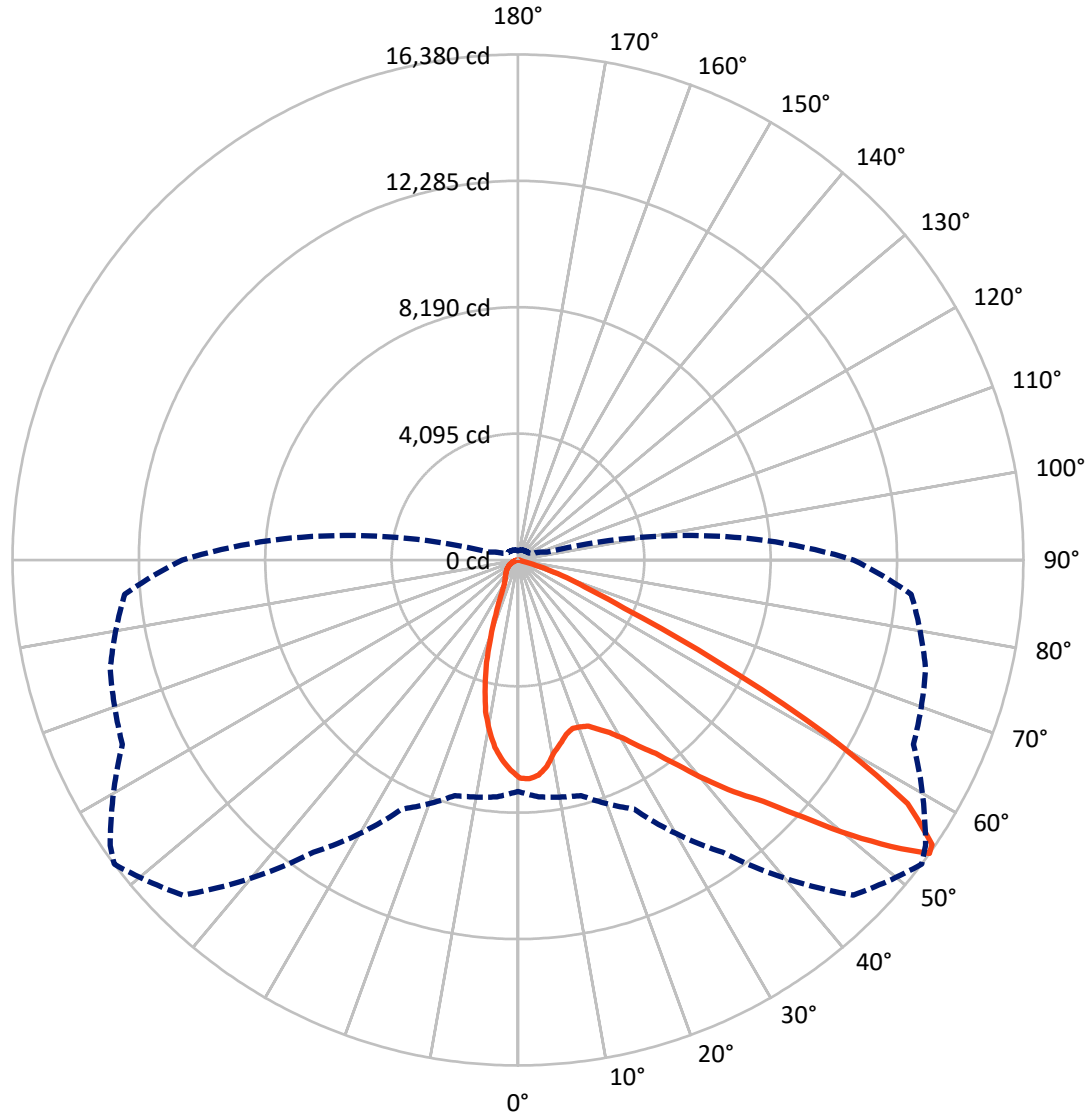
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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
House Side	Lumens	3256.6	0.0	3256.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	16426.4	0.0	16426.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	19683.0	0.0	19683.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	606.6	3.1
10°-20°	1390.7	7.1
20°-30°	1976.5	10.0
30°-40°	3050.2	15.5
40°-50°	4782.4	24.3
50°-60°	5555.4	28.2
60°-70°	2099.2	10.7
70°-80°	199.6	1.0
80°-90°	22.5	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°	19683.0	100.0
0°-180°	19683.0	100.0

Coefficient of Utilization



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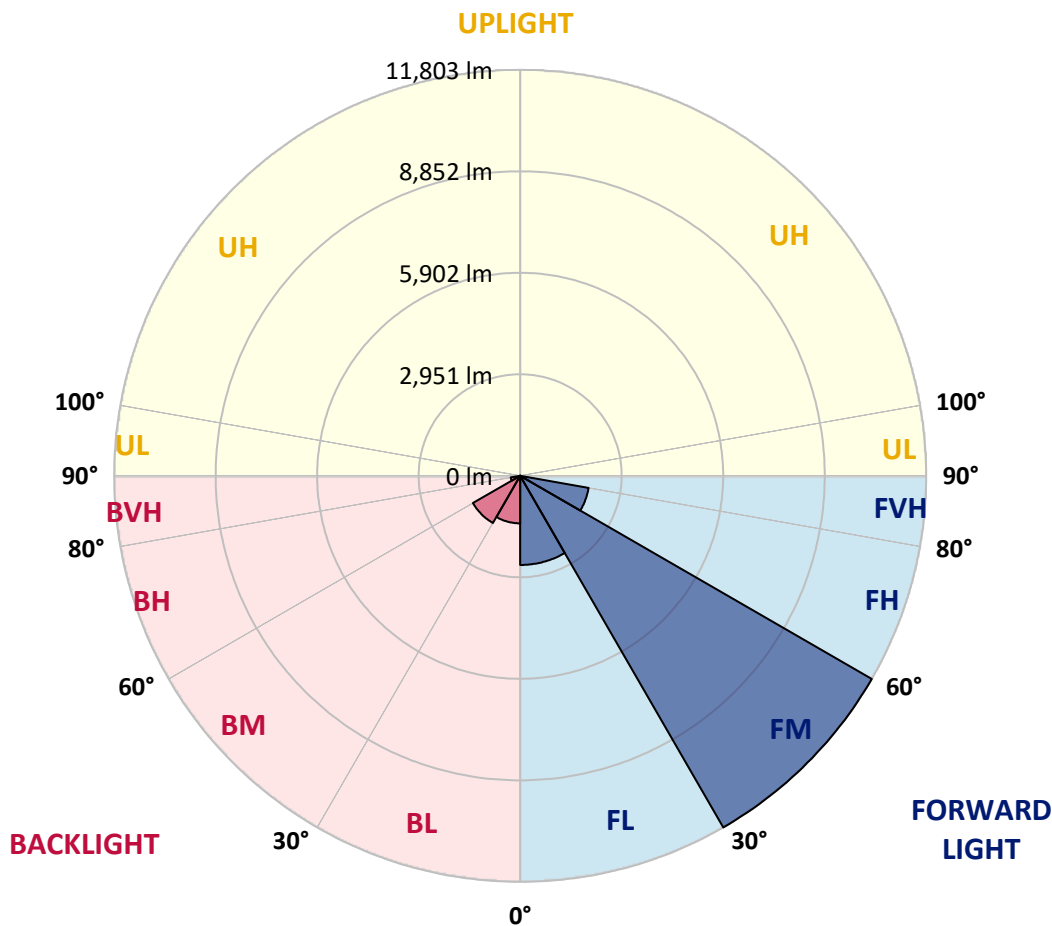
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2591.7	13.2			
FM (30°-60°)	11803.3	60.0			
FH (60°-80°)	2019.8	10.3			G2/5000
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	1382.0	7.0	B3/2500		
BM (30°-60°)	1584.8	8.1	B2/2500		
BH (60°-80°)	279.0	1.4	B1/500		G1/500
BVH (80°-90°)	10.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8
2.5°	7033.1	6970.8	7033.1	7040.5	7084.5	7124.8	7099.1	7157.8	7124.8	7088.1	7077.1
5°	6464.8	6549.1	6552.8	6684.8	6655.4	6897.5	7003.8	6974.5	7154.1	7143.1	7117.5
7.5°	5955.1	5922.1	5966.1	6120.1	6314.4	6593.1	6747.1	6743.4	7000.1	7183.5	7165.1
10°	5482.0	5478.4	5570.0	5691.0	5856.1	6149.4	6362.1	6468.4	6868.1	7146.8	7187.1
12.5°	5163.0	5148.3	5247.3	5346.4	5606.7	5834.1	6105.4	6156.7	6615.1	7018.5	7084.5
15°	4954.0	4987.0	4994.3	5185.0	5350.0	5650.7	5863.4	5969.7	6497.8	6915.8	7168.8
17.5°	4917.3	4961.3	4965.0	5122.7	5298.7	5551.7	5738.7	5881.7	6398.8	6967.1	7172.5
20°	4990.7	4965.0	4987.0	5086.0	5258.3	5500.4	5771.7	5819.4	6365.8	6992.8	7212.8
22.5°	5199.7	5192.3	5137.3	5218.0	5339.0	5592.0	5848.7	5922.1	6461.1	7124.8	7245.8
25°	5430.7	5471.0	5419.7	5408.7	5493.0	5742.4	6083.4	6178.7	6780.1	7363.2	7348.5
27.5°	5863.4	5823.1	5823.1	5771.7	5749.7	5870.7	6336.4	6494.1	7135.8	7671.2	7465.8
30°	6277.7	6321.8	6288.7	6307.1	6160.4	6149.4	6695.8	6890.1	7766.5	8140.5	7715.2
32.5°	6934.1	6875.5	6930.5	6882.8	6688.4	6490.4	7183.5	7385.2	8529.2	8679.6	8089.2
35°	7480.5	7454.8	7689.5	7682.2	7366.8	7172.5	7700.5	8001.2	9060.9	9325.0	8529.2
37.5°	8257.9	8210.2	8477.9	8606.2	8323.9	8034.2	8441.2	8789.6	9556.0	9842.0	8980.3
40°	9057.3	9178.3	9537.6	9750.3	9449.6	9064.6	9347.0	9453.3	9886.0	10179.3	9288.3
42.5°	10069.3	10245.3	10612.0	10795.4	10769.7	10351.7	10267.3	10263.7	10124.3	10084.0	9515.6
45°	11041.1	10975.1	11539.8	11939.5	12262.1	12141.1	11154.7	11044.7	10502.0	10227.0	9574.3
47.5°	11466.4	11444.4	11829.5	12540.8	13640.9	13791.2	12445.5	12020.1	11140.1	10828.4	9893.3
50°	10916.4	11030.1	11411.4	12199.8	13886.6	15034.3	14029.6	13457.6	11884.5	11561.8	10648.7
52.5°	9119.6	9196.6	9559.6	10560.7	13050.5	15767.7	15547.7	15217.7	13252.2	12716.8	11965.1
54°	7498.8	7704.2	7902.2	8906.9	11561.8	15360.7	16380.1	16127.1	14143.3	13677.6	12793.8
55°	6530.8	6651.8	6794.8	7795.8	10531.4	14671.3	16284.7	16306.7	14741.0	13978.3	13351.2
57.5°	4770.6	4855.0	4708.3	5152.0	7231.1	11913.8	14895.0	15489.0	15547.7	14429.3	13692.2
60°	3644.9	3681.6	3516.6	3586.2	4495.6	8177.2	11521.4	12236.5	14025.9	12610.5	11598.4
62.5°	2827.2	2834.5	2830.9	2951.9	3098.5	4811.0	7205.5	7839.9	9669.6	8954.6	7876.5
65°	2082.8	2049.8	2108.5	2475.2	2643.8	3025.2	3795.3	4257.3	5254.7	4437.0	3171.9
67.5°	1349.4	1360.4	1419.1	1840.8	2266.2	2321.2	2335.8	2299.2	2302.8	1268.8	795.7
70°	810.4	828.7	810.4	1041.4	1620.8	1664.8	1521.8	1485.1	1158.7	300.7	297.0
72.5°	480.4	454.7	407.0	447.4	674.7	806.7	726.0	722.4	454.7	176.0	176.0
75°	201.7	183.3	150.3	135.7	179.7	172.3	172.3	154.0	121.0	117.3	110.0
77.5°	40.3	40.3	29.3	33.0	44.0	51.3	62.3	62.3	73.3	73.3	69.7
80°	0.0	3.7	11.0	22.0	33.0	47.7	55.0	55.0	62.3	62.3	51.3
82.5°	0.0	3.7	11.0	22.0	29.3	44.0	55.0	55.0	62.3	66.0	55.0
85°	0.0	3.7	11.0	18.3	29.3	36.7	36.7	33.0	25.7	22.0	14.7
87.5°	0.0	0.0	3.7	7.3	3.7	7.3	7.3	7.3	7.3	7.3	7.3
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°	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8	7069.8
2.5°	7102.8	7099.1	7011.1	6868.1	6835.1	6714.1	6699.4	6626.1	6666.4	6530.8	6516.1
5°	7044.1	7000.1	6893.8	6802.1	6534.4	6343.8	6193.4	6010.1	5903.7	5922.1	5852.4
7.5°	7128.5	7014.8	6827.8	6508.8	6182.4	5848.7	5669.0	5295.0	5159.3	4957.7	4928.3
10°	7040.5	6956.1	6666.4	6138.4	5687.4	5207.0	4785.3	4371.0	4055.6	3919.9	3890.6
12.5°	7033.1	6886.5	6402.4	5815.7	5163.0	4473.6	3861.3	3344.2	3032.5	2856.5	2816.2
15°	6919.5	6743.4	6105.4	5317.0	4415.0	3556.9	2889.5	2390.8	2152.5	2049.8	2079.1
17.5°	6930.5	6666.4	5808.4	4789.0	3677.9	2610.8	1972.8	1716.1	1653.8	1679.4	1679.4
20°	6919.5	6494.1	5449.0	4180.3	2816.2	1811.5	1448.4	1356.8	1397.1	1477.8	1459.4
22.5°	6860.8	6413.4	5119.0	3538.6	2071.8	1342.1	1162.4	1166.1	1228.4	1327.4	1349.4
25°	6904.8	6233.7	4701.0	2889.5	1510.8	1070.7	1008.4	1034.1	1100.1	1173.4	1188.1
27.5°	6871.8	6105.4	4264.6	2244.1	1103.7	920.4	916.7	946.1	975.4	1030.4	1030.4
30°	6908.5	5988.1	3835.6	1668.4	909.4	843.4	828.7	850.7	880.1	891.1	887.4
32.5°	7044.1	5900.1	3340.6	1246.7	803.1	770.1	770.1	770.1	766.4	781.1	784.7
35°	7341.2	5914.7	2904.2	964.4	733.4	707.7	696.7	682.0	674.7	682.0	685.7
37.5°	7663.8	5907.4	2453.2	821.4	682.0	660.0	634.4	612.4	608.7	616.0	605.0
40°	7806.9	5977.1	2035.1	737.0	634.4	608.7	568.4	550.0	553.7	561.0	553.7
42.5°	8001.2	5999.1	1763.8	671.0	590.4	550.0	524.4	502.4	498.7	509.7	506.0
45°	7997.5	5874.4	1477.8	634.4	550.0	506.0	473.0	454.7	454.7	462.0	465.7
47.5°	8232.2	5856.1	1268.8	601.4	520.7	476.7	436.4	421.7	418.0	418.0	410.7
50°	8778.6	6112.7	1107.4	564.7	484.0	443.7	410.7	392.4	377.7	370.4	366.7
52.5°	9845.7	6912.1	982.7	520.7	443.7	410.7	381.4	366.7	348.4	330.0	326.4
54°	10879.7	7737.2	975.4	484.0	410.7	388.7	363.0	355.7	333.7	308.0	300.7
55°	11345.4	8217.5	1001.1	454.7	388.7	374.0	352.0	344.7	322.7	293.4	289.7
57.5°	11730.4	8404.6	986.4	377.7	352.0	348.4	330.0	319.0	293.4	253.0	245.7
60°	9442.3	6354.8	707.7	333.7	322.7	315.4	300.7	293.4	260.4	216.3	212.7
62.5°	5966.1	3655.9	451.0	293.4	282.4	271.4	253.0	245.7	216.3	172.3	161.3
65°	2541.2	1514.4	304.4	260.4	242.0	223.7	209.0	198.0	172.3	128.3	124.7
67.5°	660.0	539.0	253.0	227.3	201.7	176.0	165.0	146.7	117.3	88.0	84.3
70°	297.0	271.4	212.7	190.7	161.3	135.7	121.0	102.7	77.0	58.7	55.0
72.5°	176.0	172.3	161.3	143.0	121.0	102.7	88.0	69.7	51.3	33.0	33.0
75°	110.0	106.3	110.0	99.0	84.3	77.0	66.0	47.7	29.3	14.7	14.7
77.5°	66.0	66.0	66.0	62.3	58.7	58.7	47.7	29.3	14.7	3.7	3.7
80°	51.3	51.3	55.0	51.3	51.3	51.3	40.3	22.0	7.3	0.0	0.0
82.5°	51.3	55.0	62.3	58.7	51.3	44.0	36.7	22.0	7.3	0.0	0.0
85°	14.7	11.0	18.3	25.7	36.7	33.0	25.7	18.3	7.3	0.0	0.0
87.5°	7.3	7.3	7.3	7.3	3.7	3.7	3.7	3.7	3.7	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)