

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: P651288

Luminaire Tested: **GALN-SA3D-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11357.7 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

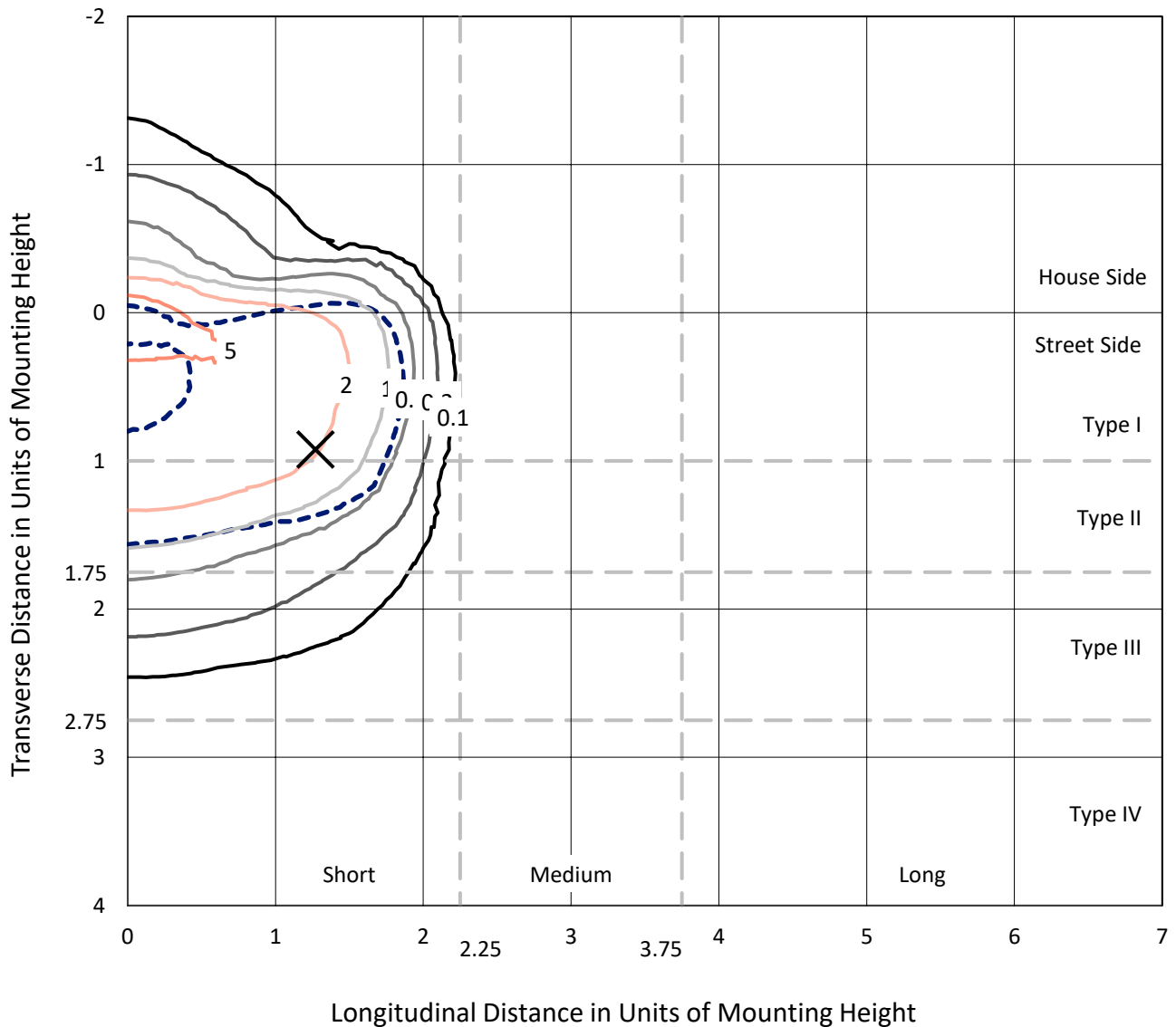
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

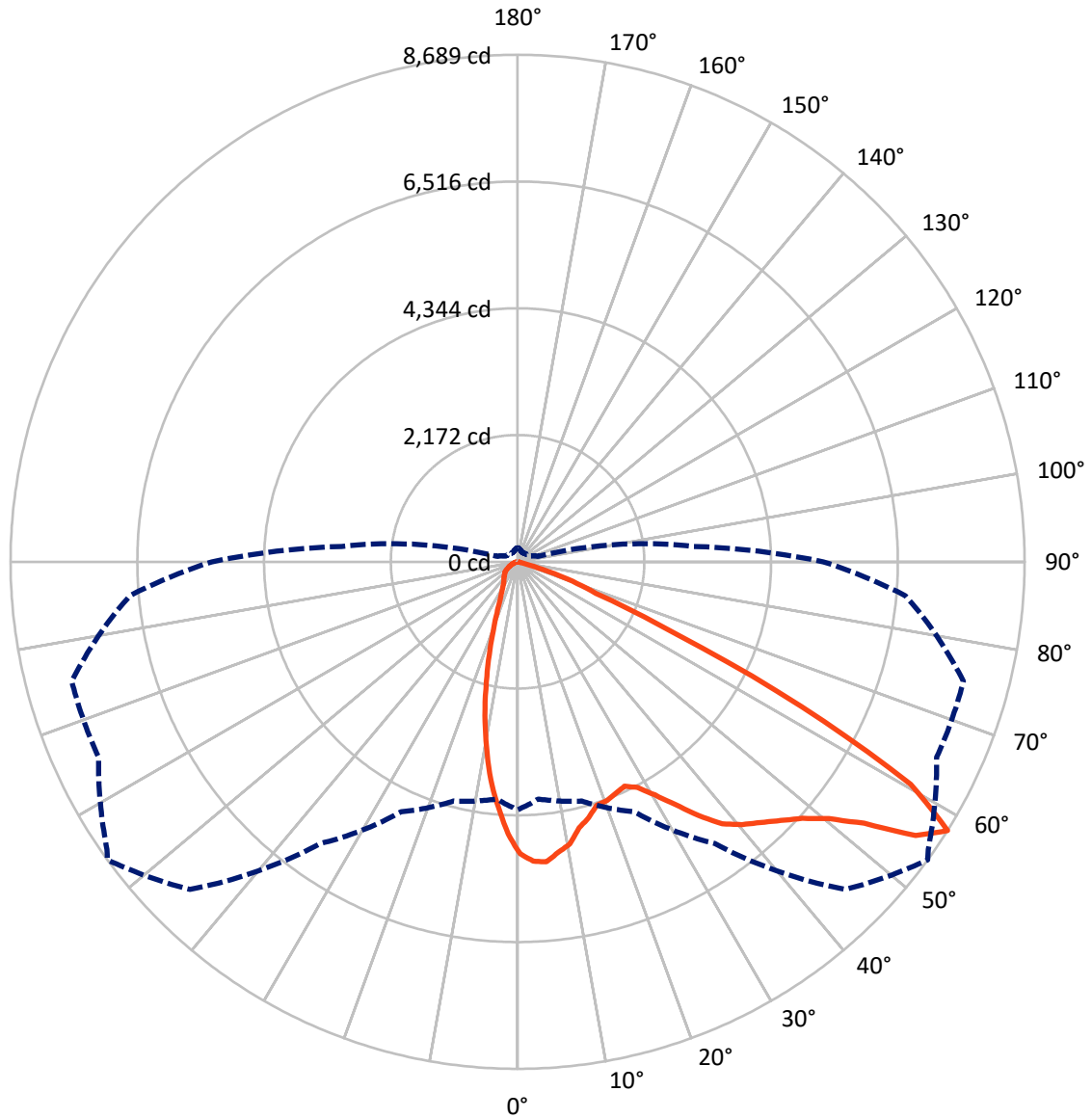
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1605.0	0.0	1605.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9752.7	0.0	9752.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	11357.7	0.0	11357.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.7	3.7
10°-20°	893.9	7.9
20°-30°	1184.6	10.4
30°-40°	1721.5	15.2
40°-50°	2552.7	22.5
50°-60°	3192.1	28.1
60°-70°	1259.1	11.1
70°-80°	125.4	1.1
80°-90°	9.7	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°	11357.7	100.0
0°-180°	11357.7	100.0

Coefficient of Utilization

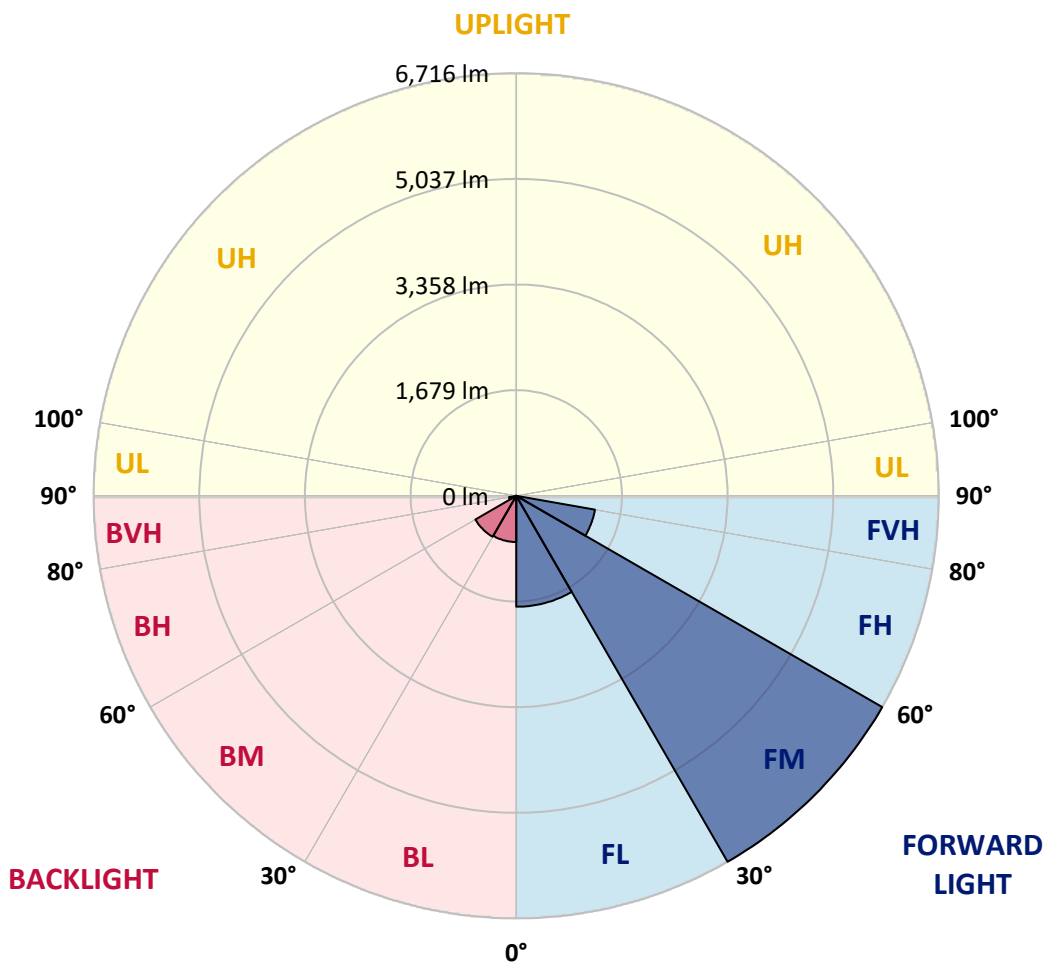


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.0	15.5			
FM (30°-60°)	6715.8	59.1			
FH (60°-80°)	1269.4	11.2			G1/1800
FVH (80°-90°)	4.4	0.0			G0/10
BL (0°-30°)	734.1	6.5	B2/1000		
BM (30°-60°)	750.6	6.6	B1/1000		
BH (60°-80°)	115.1	1.0	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2
2.5°	5294.7	5239.8	5244.0	5225.0	5199.7	5218.7	5136.2	5155.2	5153.1	5041.2	4967.3
5°	5161.6	5220.8	5159.5	5210.2	5161.6	5214.5	5163.7	5125.7	5064.5	4982.1	4844.8
7.5°	4935.7	4878.6	4895.5	4958.9	4969.5	5087.7	5024.3	5072.9	5047.6	4884.9	4697.0
10°	4481.6	4468.9	4553.3	4637.9	4741.3	4868.0	4916.7	4889.2	4870.1	4808.9	4557.6
12.5°	4133.1	4169.0	4166.9	4306.3	4481.6	4553.3	4680.1	4675.9	4781.5	4667.4	4426.7
15°	3801.5	3820.5	3909.2	3995.8	4190.1	4395.0	4551.2	4572.3	4699.1	4618.9	4325.3
17.5°	3598.8	3571.3	3641.0	3744.5	3943.0	4211.2	4384.4	4435.1	4608.3	4591.4	4209.1
20°	3398.1	3398.1	3455.2	3577.6	3759.3	4061.3	4369.7	4354.9	4608.3	4559.7	4084.5
22.5°	3330.5	3364.3	3379.1	3472.1	3687.4	3947.2	4306.3	4333.8	4644.2	4544.9	4029.7
25°	3423.5	3379.1	3383.3	3457.3	3660.0	3892.3	4259.8	4321.1	4709.7	4618.9	3985.2
27.5°	3438.3	3482.6	3495.3	3546.0	3681.1	3909.2	4376.0	4500.6	4872.2	4792.0	3997.9
30°	3567.1	3611.4	3609.3	3695.9	3788.9	4046.5	4635.8	4661.1	5208.1	5009.6	4076.1
32.5°	3723.4	3769.9	3784.6	3886.0	3959.9	4297.8	4952.6	5018.0	5531.2	5351.7	4280.9
35°	3917.7	3900.8	3968.3	4069.8	4228.1	4665.3	5339.0	5448.8	5879.7	5795.2	4492.1
37.5°	4160.5	4139.4	4204.9	4369.7	4585.0	5100.4	5695.9	5767.7	6133.1	6207.0	4882.8
40°	4331.7	4340.1	4538.6	4760.3	4988.5	5514.4	5921.9	5991.6	6310.5	6591.4	5178.5
42.5°	4616.8	4669.6	4908.2	5178.5	5417.1	5824.8	6105.7	6173.3	6392.9	6899.7	5577.7
45°	5030.7	5007.5	5271.5	5573.5	5837.5	6147.9	6323.2	6299.9	6441.5	7206.0	5829.0
47.5°	5562.9	5567.1	5742.4	6000.0	6274.6	6428.8	6566.1	6483.7	6542.8	7529.1	6164.8
50°	5926.1	5957.8	6099.4	6363.3	6500.6	6737.2	6912.4	6861.7	6842.7	7723.4	6376.0
52.5°	6019.0	6114.1	6190.2	6519.6	6840.6	7214.4	7438.3	7546.0	7208.1	7788.9	6644.2
55°	5317.9	5402.4	5670.6	6122.6	6969.5	7970.5	8278.9	8281.0	7685.4	8080.3	6832.2
57.5°	4251.3	4080.3	4245.0	4724.5	5892.4	7938.9	8688.6	8589.3	7924.1	7909.3	6669.6
60°	2939.9	2897.6	2908.2	3098.2	4078.2	6314.7	7742.4	7871.3	7296.8	6855.4	5279.9
62.5°	2329.5	2293.6	2247.2	2226.0	2532.3	3934.5	5461.5	5643.1	5102.5	4445.7	3129.9
65°	1824.7	1803.6	1809.9	1894.4	1892.3	2232.4	2986.3	2912.4	2331.6	1723.4	984.1
67.5°	1231.3	1262.9	1288.3	1543.8	1674.8	1554.4	1442.5	1400.3	758.2	318.9	217.6
70°	692.7	696.9	724.4	965.1	1271.4	1205.9	994.7	994.7	378.0	116.1	124.6
72.5°	378.0	365.3	340.0	416.0	566.0	574.5	443.5	386.5	111.9	76.0	69.7
75°	183.8	181.7	156.3	128.8	122.5	101.3	78.1	71.8	50.7	48.6	42.2
77.5°	38.0	35.9	19.0	19.0	21.1	23.2	29.6	29.6	35.9	35.9	29.6
80°	0.0	0.0	2.1	8.4	14.8	21.1	25.3	25.3	29.6	29.6	23.2
82.5°	0.0	0.0	2.1	6.3	12.7	19.0	23.2	25.3	29.6	31.7	25.3
85°	0.0	0.0	0.0	4.2	10.6	14.8	12.7	12.7	10.6	8.4	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2	5003.2
2.5°	4929.3	4925.1	4827.9	4773.0	4673.8	4587.2	4517.4	4466.8	4466.8	4435.1	4405.6
5°	4789.9	4754.0	4547.0	4414.0	4226.0	4086.7	3991.6	3917.7	3801.5	3833.2	3708.6
7.5°	4616.8	4525.9	4251.3	4048.7	3788.9	3590.3	3387.5	3208.1	3034.9	2956.7	2999.0
10°	4430.9	4272.4	3902.9	3581.9	3258.7	2895.5	2659.0	2371.7	2194.3	2183.7	2137.3
12.5°	4234.4	4055.0	3605.1	3161.6	2737.1	2299.9	1938.8	1670.6	1550.2	1417.1	1442.5
15°	4086.7	3820.5	3273.5	2739.2	2175.3	1733.9	1370.7	1163.7	1049.7	1017.9	1007.4
17.5°	3926.1	3641.0	2935.6	2289.4	1706.5	1248.1	986.3	887.0	842.7	842.7	836.4
20°	3759.3	3438.3	2599.8	1871.2	1279.8	931.4	789.9	758.2	756.1	754.0	754.0
22.5°	3649.4	3206.0	2295.7	1486.8	965.1	745.5	686.4	673.7	682.1	707.5	707.5
25°	3533.3	2982.1	1959.9	1146.8	747.6	639.9	606.1	614.6	635.7	658.9	650.5
27.5°	3415.0	2836.4	1643.1	899.7	612.5	559.7	547.0	566.0	589.2	610.3	604.0
30°	3387.5	2680.1	1343.2	682.1	525.9	487.9	496.3	513.2	536.5	544.9	553.3
32.5°	3429.9	2557.6	1100.4	559.7	458.3	447.7	447.7	456.2	471.0	490.0	483.7
35°	3550.2	2487.8	870.1	485.8	420.2	409.7	407.6	416.0	424.5	430.8	424.5
37.5°	3734.0	2433.0	711.7	430.8	394.9	378.0	373.8	371.7	380.1	382.2	386.5
40°	3968.3	2462.5	604.0	397.0	369.6	350.6	337.9	337.9	337.9	344.2	346.3
42.5°	4221.8	2502.6	521.7	378.0	346.3	323.1	310.5	306.2	310.5	318.9	316.8
45°	4487.9	2580.8	468.9	348.5	325.2	295.7	278.8	274.6	285.1	302.0	299.9
47.5°	4737.1	2692.7	428.7	329.5	304.1	276.7	255.6	251.3	270.3	293.6	295.7
50°	4986.3	2887.1	413.9	314.7	289.3	257.7	238.7	234.4	255.6	285.1	291.5
52.5°	5273.6	3096.1	403.3	295.7	272.5	242.9	221.8	217.6	240.8	278.8	280.9
55°	5461.5	3273.5	394.9	261.9	240.8	219.7	202.8	200.7	226.0	259.8	268.2
57.5°	5241.9	3026.4	365.3	228.1	204.9	194.3	179.6	179.6	200.7	232.3	238.7
60°	3974.7	1991.6	259.8	183.8	173.2	166.9	160.5	160.5	177.4	200.7	202.8
62.5°	2327.4	1072.9	166.9	147.8	147.8	141.5	130.9	130.9	147.8	160.5	162.6
65°	690.6	344.2	135.1	126.7	124.6	114.0	103.5	101.3	114.0	120.3	118.2
67.5°	198.6	158.4	111.9	105.6	103.5	86.6	80.2	78.1	80.2	76.0	73.9
70°	118.2	107.7	86.6	88.7	78.1	63.3	57.0	54.9	50.7	44.3	40.1
72.5°	65.4	65.4	63.3	67.6	54.9	42.2	35.9	29.6	23.2	19.0	16.9
75°	40.1	42.2	44.3	46.4	35.9	27.4	23.2	14.8	8.4	4.2	4.2
77.5°	27.4	29.6	31.7	33.8	29.6	25.3	19.0	10.6	2.1	0.0	0.0
80°	21.1	23.2	27.4	29.6	31.7	33.8	25.3	10.6	2.1	0.0	0.0
82.5°	23.2	25.3	31.7	29.6	29.6	29.6	23.2	10.6	2.1	0.0	0.0
85°	4.2	6.3	10.6	10.6	14.8	19.0	14.8	4.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)