

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: P647328

Luminaire Tested: **GALN-SA3D-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647328
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-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 10574.4 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

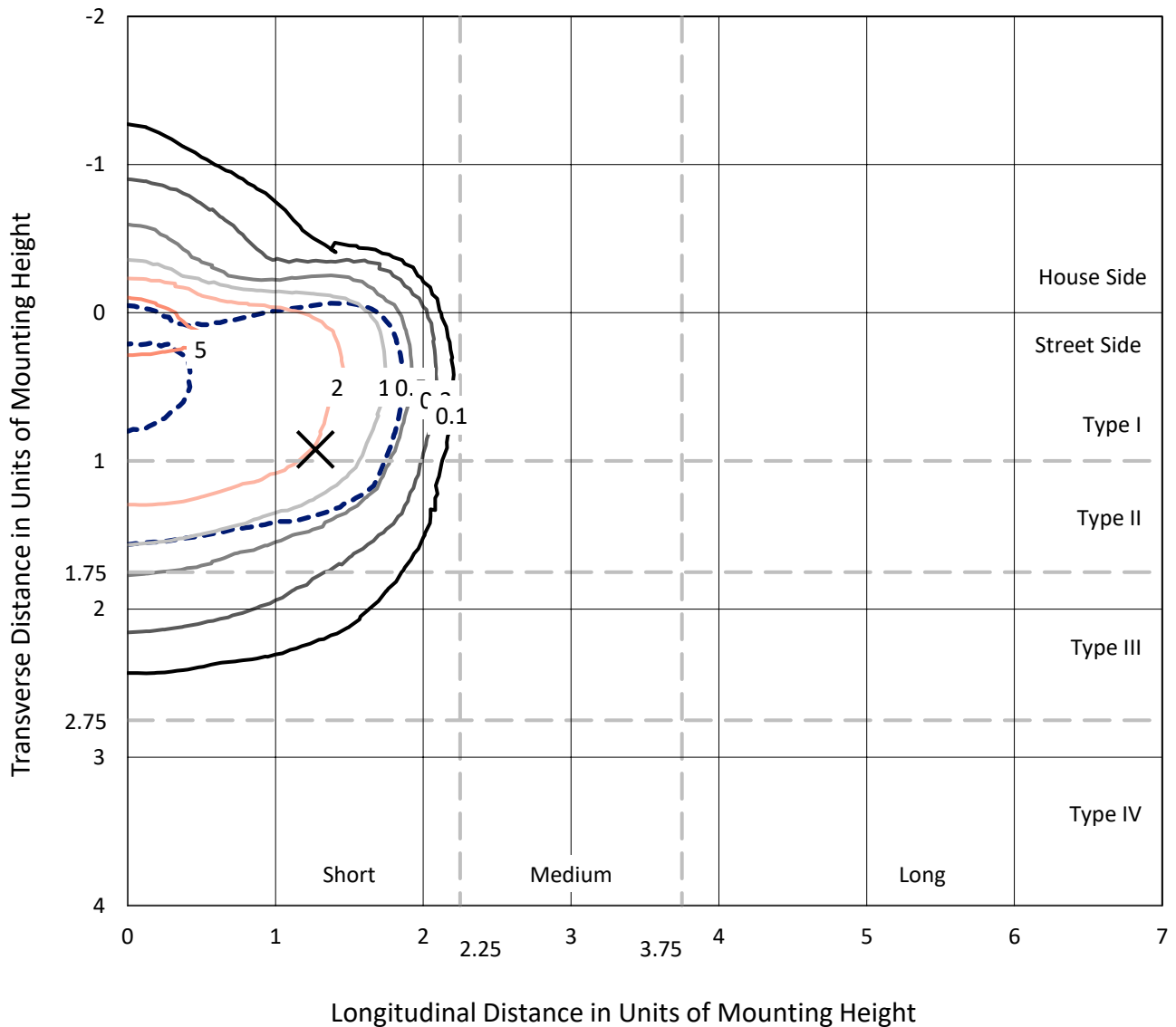
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

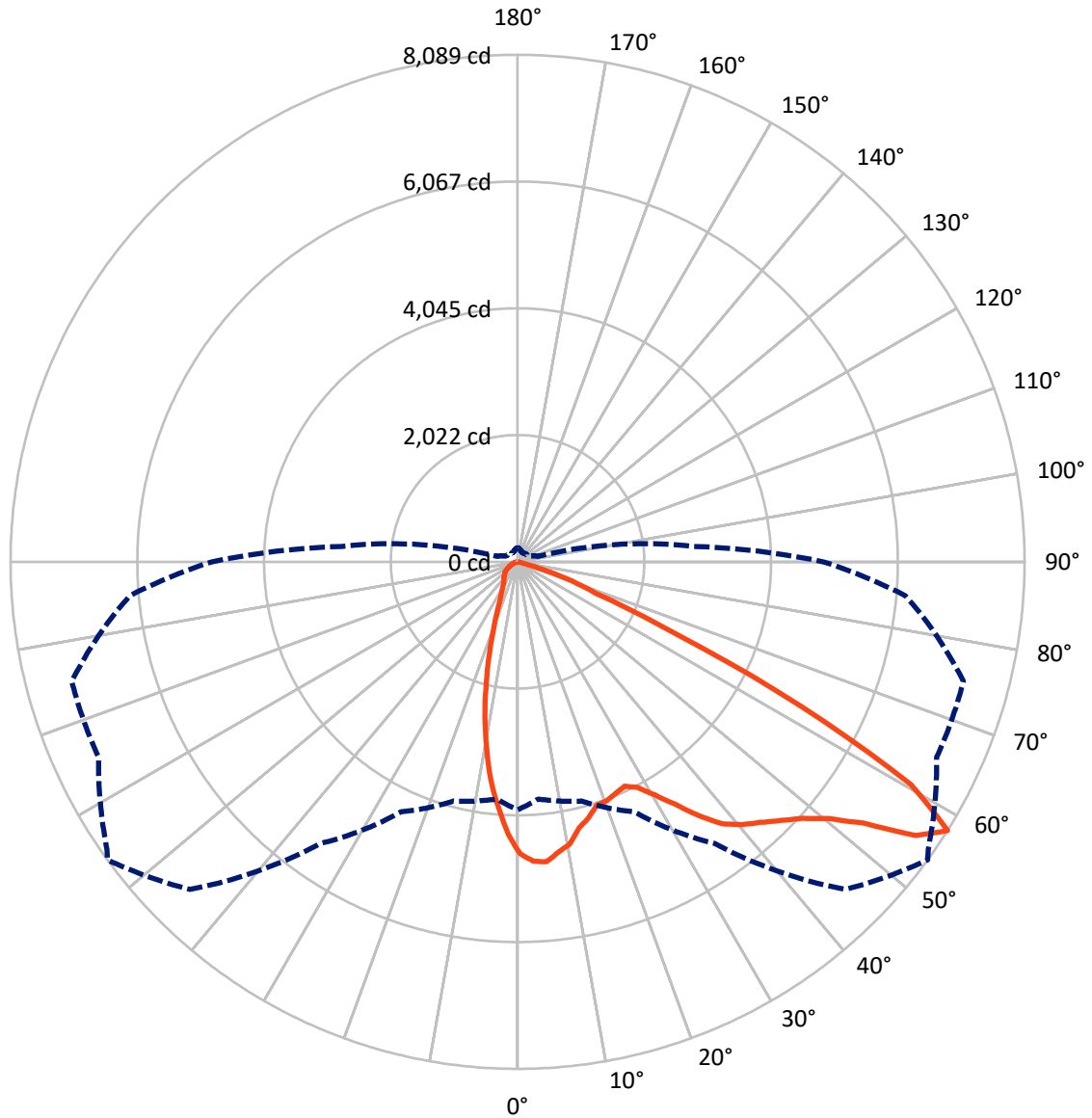
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	1494.4	0.0	1494.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9080.1	0.0	9080.1
	% Fixture	85.9	0.0	85.9
Total	Lumens	10574.4	0.0	10574.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.8	3.7
10°-20°	832.2	7.9
20°-30°	1102.9	10.4
30°-40°	1602.8	15.2
40°-50°	2376.7	22.5
50°-60°	2972.0	28.1
60°-70°	1172.3	11.1
70°-80°	116.7	1.1
80°-90°	9.1	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°	10574.4	100.0
0°-180°	10574.4	100.0

Coefficient of Utilization



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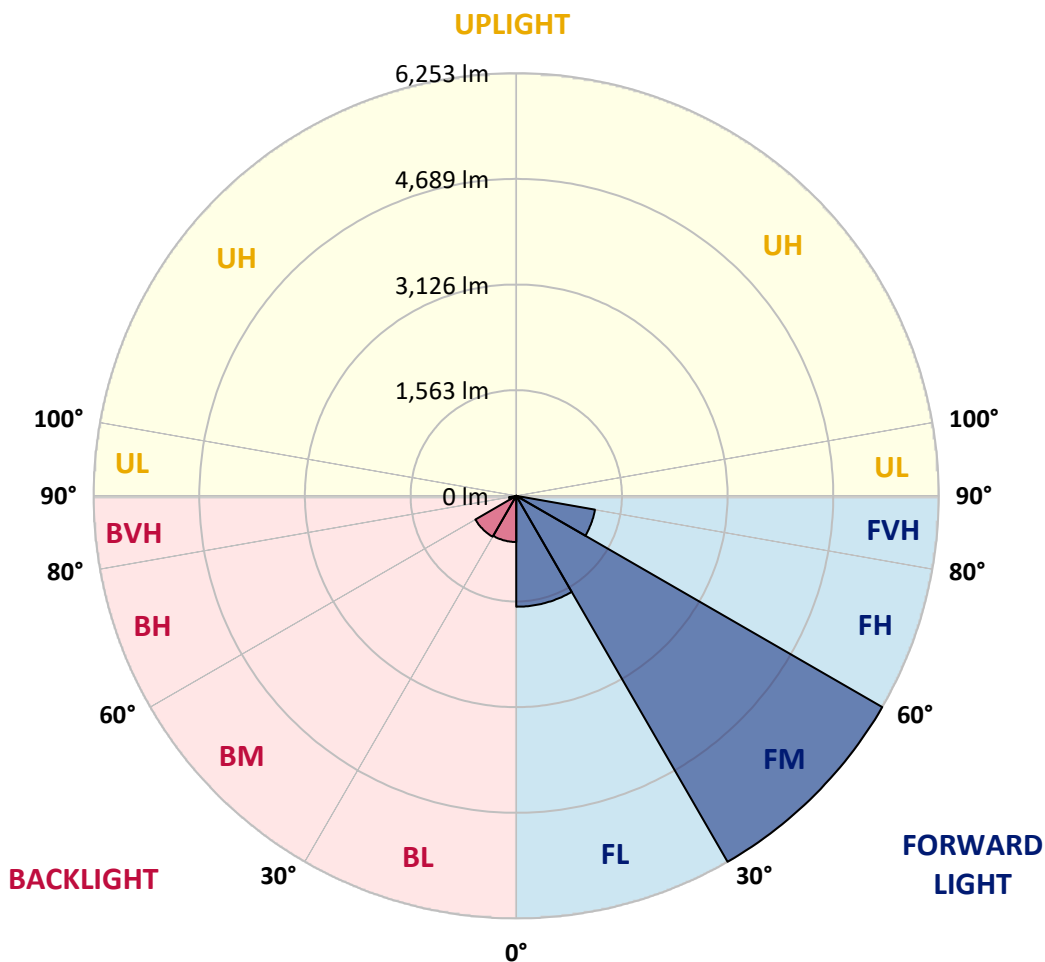
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1641.5	15.5			
FM (30°-60°)	6252.6	59.1			
FH (60°-80°)	1181.9	11.2			G1/1800
FVH (80°-90°)	4.1	0.0			G0/10
BL (0°-30°)	683.4	6.5	B2/1000		
BM (30°-60°)	698.8	6.6	B1/1000		
BH (60°-80°)	107.2	1.0	B0/110		G0/110
BVH (80°-90°)	5.0	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°	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1
2.5°	4929.5	4878.4	4882.3	4864.6	4841.1	4858.7	4782.0	4799.7	4797.8	4693.5	4624.7
5°	4805.7	4860.7	4803.7	4850.8	4805.7	4854.8	4807.6	4772.2	4715.2	4638.5	4510.7
7.5°	4595.3	4542.2	4557.9	4616.9	4626.7	4736.8	4677.8	4723.1	4699.5	4548.1	4373.1
10°	4172.5	4160.7	4239.3	4318.0	4414.3	4532.3	4577.6	4552.0	4534.3	4477.3	4243.3
12.5°	3848.1	3881.5	3879.5	4009.3	4172.5	4239.3	4357.3	4353.4	4451.7	4345.5	4121.4
15°	3539.3	3557.0	3639.6	3720.3	3901.1	4091.9	4237.4	4257.0	4375.0	4300.3	4027.0
17.5°	3350.6	3325.0	3389.9	3486.2	3671.1	3920.8	4082.0	4129.2	4290.4	4274.7	3918.8
20°	3163.8	3163.8	3216.9	3330.9	3500.0	3781.2	4068.3	4054.5	4290.4	4245.3	3802.8
22.5°	3100.8	3132.3	3146.1	3232.6	3433.1	3675.0	4009.3	4034.9	4323.9	4231.5	3751.7
25°	3187.4	3146.1	3150.0	3218.8	3407.6	3623.9	3966.1	4023.1	4384.9	4300.3	3710.4
27.5°	3201.1	3242.4	3254.2	3301.4	3427.3	3639.6	4074.2	4190.2	4536.2	4461.5	3722.2
30°	3321.1	3362.4	3360.4	3441.1	3527.6	3767.4	4316.1	4339.6	4848.9	4664.1	3795.0
32.5°	3466.6	3509.9	3523.6	3618.0	3686.8	4001.4	4611.0	4671.9	5149.7	4982.6	3985.7
35°	3647.5	3631.8	3694.7	3789.1	3936.5	4343.5	4970.8	5073.1	5474.2	5395.6	4182.3
37.5°	3873.6	3853.9	3914.9	4068.3	4268.8	4748.7	5303.1	5370.0	5710.1	5778.9	4546.1
40°	4032.9	4040.7	4225.6	4432.0	4644.4	5134.1	5513.5	5578.4	5875.3	6136.8	4821.4
42.5°	4298.4	4347.5	4569.7	4821.4	5043.5	5423.1	5684.6	5747.5	5952.0	6423.9	5193.0
45°	4683.7	4662.1	4907.9	5189.1	5434.9	5723.9	5887.1	5865.5	5997.2	6709.1	5427.0
47.5°	5179.2	5183.1	5346.4	5586.2	5841.9	5985.4	6113.3	6036.5	6091.6	7009.9	5739.6
50°	5517.4	5546.9	5678.7	5924.5	6052.3	6272.5	6435.7	6388.5	6370.8	7190.8	5936.2
52.5°	5603.9	5692.4	5763.3	6070.0	6368.8	6716.9	6925.3	7025.6	6711.0	7251.8	6186.0
55°	4951.1	5029.8	5279.5	5700.3	6488.8	7420.8	7707.9	7709.9	7155.4	7523.1	6361.0
57.5°	3958.1	3798.9	3952.3	4398.7	5486.0	7391.4	8089.4	7996.9	7377.6	7363.8	6209.6
60°	2737.1	2697.7	2707.6	2884.6	3796.9	5879.2	7208.5	7328.4	6793.5	6382.6	4915.8
62.5°	2168.8	2135.4	2092.2	2072.4	2357.6	3663.2	5084.9	5253.9	4750.6	4139.1	2914.1
65°	1698.9	1679.2	1685.1	1763.8	1761.8	2078.4	2780.4	2711.5	2170.8	1604.5	916.3
67.5°	1146.4	1175.8	1199.5	1437.4	1559.3	1447.2	1343.0	1303.7	705.9	296.9	202.6
70°	645.0	648.9	674.5	898.6	1183.7	1122.7	926.1	926.1	352.0	108.1	116.0
72.5°	352.0	340.1	316.6	387.4	527.0	534.9	413.0	359.9	104.2	70.8	64.9
75°	171.1	169.1	145.5	120.0	114.1	94.4	72.7	66.9	47.2	45.3	39.3
77.5°	35.4	33.4	17.7	17.7	19.7	21.6	27.6	27.6	33.4	33.4	27.6
80°	0.0	0.0	2.0	7.8	13.8	19.7	23.6	23.6	27.6	27.6	21.6
82.5°	0.0	0.0	2.0	5.9	11.8	17.7	21.6	23.6	27.6	29.5	23.6
85°	0.0	0.0	0.0	3.9	9.9	13.8	11.8	11.8	9.9	7.8	3.9
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°	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1	4658.1
2.5°	4589.3	4585.4	4495.0	4443.8	4351.4	4270.8	4205.9	4158.7	4158.7	4129.2	4101.7
5°	4459.6	4426.1	4233.4	4109.6	3934.6	3804.8	3716.3	3647.5	3539.3	3568.8	3452.8
7.5°	4298.4	4213.8	3958.1	3769.4	3527.6	3342.7	3153.9	2986.8	2825.6	2752.8	2792.2
10°	4125.3	3977.8	3633.7	3334.9	3034.0	2695.8	2475.6	2208.1	2043.0	2033.1	1989.9
12.5°	3942.4	3775.3	3356.5	2943.5	2548.4	2141.3	1805.0	1555.4	1443.3	1319.4	1343.0
15°	3804.8	3557.0	3047.7	2550.3	2025.3	1614.3	1276.1	1083.4	977.3	947.7	938.0
17.5°	3655.4	3389.9	2733.1	2131.5	1588.8	1162.1	918.3	825.8	784.6	784.6	778.7
20°	3500.0	3201.1	2420.5	1742.2	1191.6	867.2	735.4	705.9	703.9	702.0	702.0
22.5°	3397.8	2984.9	2137.4	1384.3	898.6	694.1	639.1	627.3	635.1	658.7	658.7
25°	3289.6	2776.4	1824.7	1067.7	696.1	595.8	564.3	572.2	591.9	613.5	605.7
27.5°	3179.5	2640.7	1529.7	837.7	570.3	521.1	509.3	527.0	548.6	568.2	562.4
30°	3153.9	2495.3	1250.6	635.1	489.6	454.2	462.0	477.8	499.5	507.3	515.1
32.5°	3193.3	2381.2	1024.5	521.1	426.7	416.9	416.9	424.7	438.5	456.2	450.3
35°	3305.4	2316.3	810.1	452.3	391.3	381.5	379.5	387.4	395.3	401.1	395.3
37.5°	3476.4	2265.2	662.7	401.1	367.7	352.0	348.0	346.1	353.9	355.9	359.9
40°	3694.7	2292.7	562.4	369.7	344.1	326.4	314.6	314.6	314.6	320.5	322.4
42.5°	3930.7	2330.1	485.7	352.0	322.4	300.8	289.1	285.1	289.1	296.9	295.0
45°	4178.4	2402.8	436.5	324.5	302.8	275.3	259.6	255.6	265.4	281.2	279.2
47.5°	4410.4	2507.0	399.2	306.8	283.1	257.6	238.0	234.0	251.7	273.3	275.3
50°	4642.4	2688.0	385.4	293.0	269.4	239.9	222.2	218.2	238.0	265.4	271.4
52.5°	4909.9	2882.6	375.5	275.3	253.7	226.1	206.5	202.6	224.2	259.6	261.5
55°	5084.9	3047.7	367.7	243.8	224.2	204.5	188.8	186.8	210.4	241.9	249.7
57.5°	4880.4	2817.7	340.1	212.3	190.7	180.9	167.2	167.2	186.8	216.3	222.2
60°	3700.6	1854.2	241.9	171.1	161.2	155.3	149.5	149.5	165.1	186.8	188.8
62.5°	2166.9	998.9	155.3	137.7	137.7	131.8	121.9	121.9	137.7	149.5	151.4
65°	643.0	320.5	125.8	118.0	116.0	106.2	96.4	94.4	106.2	112.0	110.1
67.5°	184.9	147.4	104.2	98.3	96.4	80.6	74.7	72.7	74.7	70.8	68.8
70°	110.1	100.3	80.6	82.6	72.7	59.0	53.1	51.1	47.2	41.3	37.3
72.5°	60.9	60.9	59.0	63.0	51.1	39.3	33.4	27.6	21.6	17.7	15.7
75°	37.3	39.3	41.3	43.2	33.4	25.5	21.6	13.8	7.8	3.9	3.9
77.5°	25.5	27.6	29.5	31.5	27.6	23.6	17.7	9.9	2.0	0.0	0.0
80°	19.7	21.6	25.5	27.6	29.5	31.5	23.6	9.9	2.0	0.0	0.0
82.5°	21.6	23.6	29.5	27.6	27.6	27.6	21.6	9.9	2.0	0.0	0.0
85°	3.9	5.9	9.9	9.9	13.8	17.7	13.8	3.9	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)