

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: P530077

Luminaire Tested: **GALN-SA5B-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530077
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-SA5B-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA 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: 15494 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

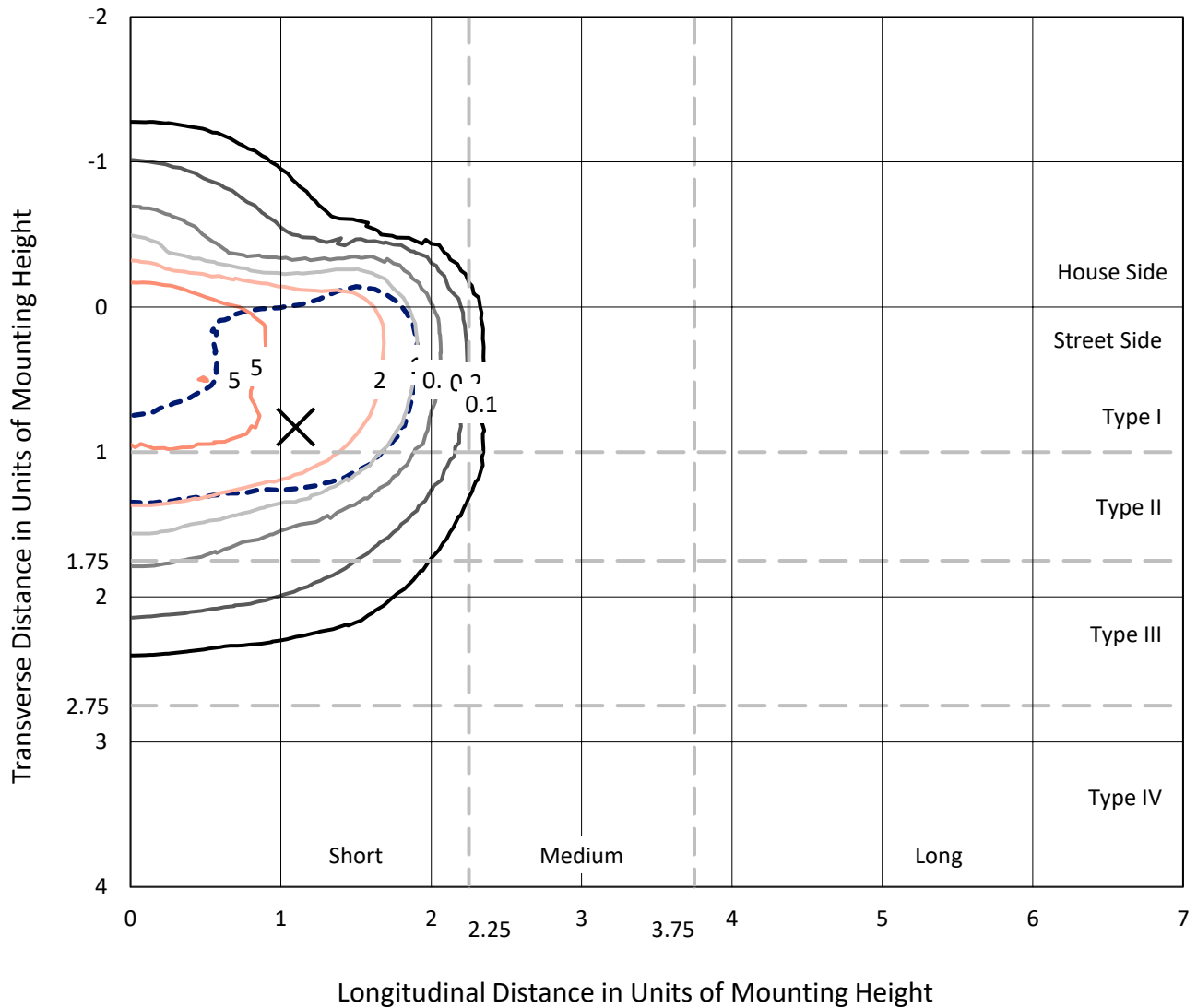
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530077
 CATALOG NUMBER: GALN-SA5B-735-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

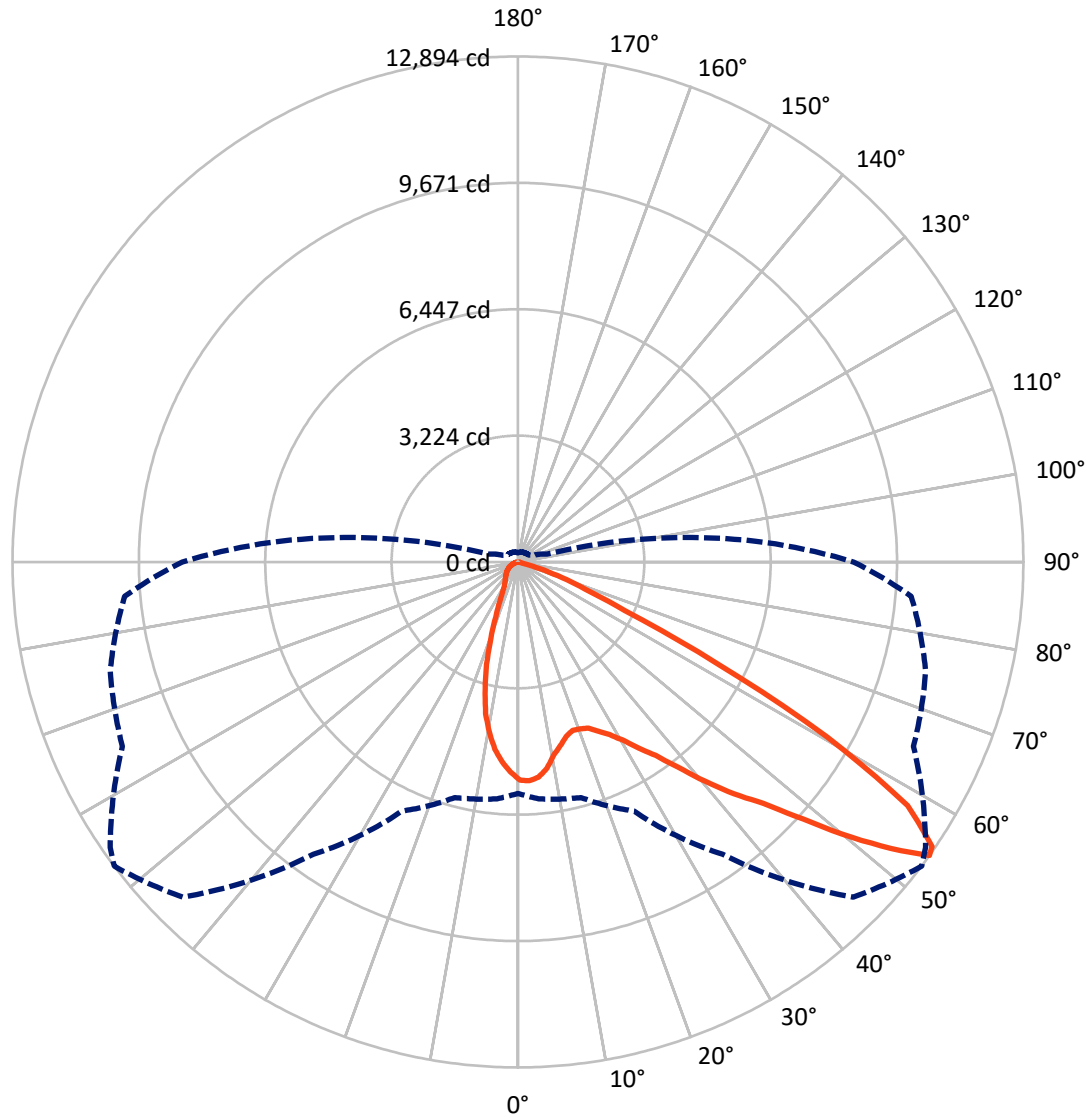
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

REPORT NUMBER: P530077
CATALOG NUMBER: GALN-SA5B-735-U-SL2-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P530077
 CATALOG NUMBER: GALN-SA5B-735-U-SL2-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2563.5	0.0	2563.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	12930.5	0.0	12930.5
	% Fixture	83.5	0.0	83.5
Total	Lumens	15494.0	0.0	15494.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.5	3.1
10°-20°	1094.7	7.1
20°-30°	1555.8	10.0
30°-40°	2401.0	15.5
40°-50°	3764.6	24.3
50°-60°	4373.1	28.2
60°-70°	1652.4	10.7
70°-80°	157.1	1.0
80°-90°	17.7	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°	15494.0	100.0
0°-180°	15494.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530077

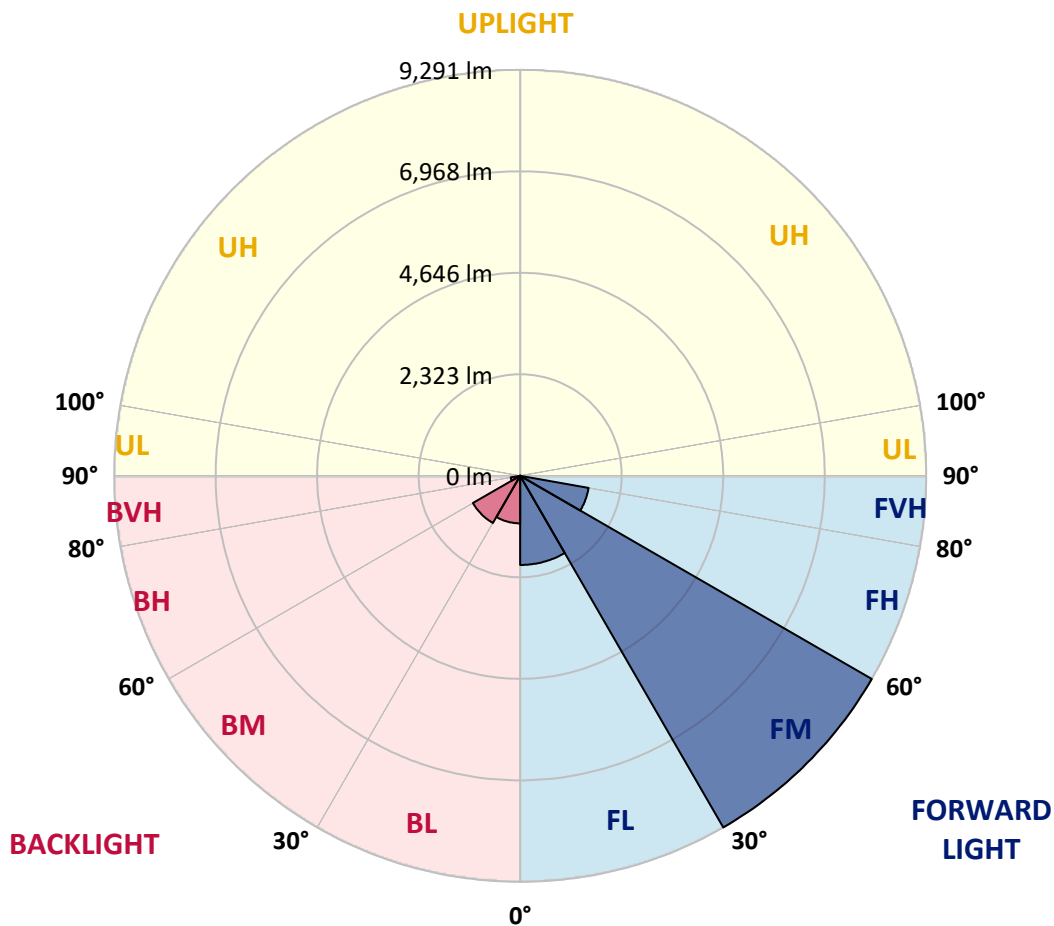
CATALOG NUMBER: GALN-SA5B-735-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2040.2	13.2			
FM (30°-60°)	9291.3	60.0			
FH (60°-80°)	1589.9	10.3			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	1087.9	7.0	B3/2500		
BM (30°-60°)	1247.5	8.1	B2/2500		
BH (60°-80°)	219.6	1.4	B1/500		G1/500
BVH (80°-90°)	8.6	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





REPORT NUMBER: P530077

CATALOG NUMBER: GALN-SA5B-735-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2
2.5°	5536.3	5487.2	5536.3	5542.1	5576.7	5608.5	5588.3	5634.5	5608.5	5579.6	5571.0
5°	5088.9	5155.3	5158.2	5262.1	5239.0	5429.5	5513.2	5490.1	5631.6	5622.9	5602.7
7.5°	4687.7	4661.7	4696.3	4817.6	4970.6	5189.9	5311.2	5308.3	5510.3	5654.7	5640.2
10°	4315.3	4312.4	4384.6	4479.9	4609.8	4840.7	5008.1	5091.8	5406.4	5625.8	5657.6
12.5°	4064.2	4052.7	4130.6	4208.5	4413.5	4592.4	4806.0	4846.4	5207.3	5524.8	5576.7
15°	3899.7	3925.6	3931.4	4081.5	4211.4	4448.1	4615.5	4699.2	5114.9	5444.0	5643.1
17.5°	3870.8	3905.4	3908.3	4032.4	4171.0	4370.2	4517.4	4630.0	5037.0	5484.4	5646.0
20°	3928.5	3908.3	3925.6	4003.6	4139.2	4329.8	4543.4	4580.9	5011.0	5504.6	5677.8
22.5°	4093.1	4087.3	4044.0	4107.5	4202.8	4401.9	4604.0	4661.7	5086.0	5608.5	5703.7
25°	4274.9	4306.7	4266.3	4257.6	4324.0	4520.3	4788.7	4863.8	5337.1	5796.1	5784.6
27.5°	4615.5	4583.8	4583.8	4543.4	4526.0	4621.3	4987.9	5112.0	5617.1	6038.6	5876.9
30°	4941.7	4976.3	4950.4	4964.8	4849.3	4840.7	5270.8	5423.7	6113.6	6408.0	6073.2
32.5°	5458.4	5412.2	5455.5	5418.0	5265.0	5109.1	5654.7	5813.4	6714.0	6832.4	6367.6
35°	5888.5	5868.3	6053.0	6047.2	5799.0	5646.0	6061.7	6298.4	7132.6	7340.4	6714.0
37.5°	6500.4	6462.9	6673.6	6774.6	6552.4	6324.3	6644.7	6919.0	7522.2	7747.4	7069.1
40°	7129.7	7224.9	7507.8	7675.2	7438.5	7135.4	7357.7	7441.4	7782.0	8012.9	7311.5
42.5°	7926.3	8064.9	8353.5	8497.9	8477.7	8148.6	8082.2	8079.3	7969.6	7937.9	7490.5
45°	8691.3	8639.3	9083.8	9398.5	9652.5	9557.2	8780.8	8694.2	8267.0	8050.5	7536.7
47.5°	9026.1	9008.8	9311.9	9871.9	10737.8	10856.1	9796.8	9462.0	8769.2	8523.9	7787.8
50°	8593.1	8682.6	8982.8	9603.4	10931.2	11834.7	11043.8	10593.5	9355.2	9101.2	8382.4
52.5°	7178.7	7239.4	7525.1	8313.1	10273.1	12412.0	12238.8	11979.0	10431.8	10010.4	9418.7
54°	5902.9	6064.5	6220.4	7011.3	9101.2	12091.6	12894.0	12694.9	11133.3	10766.7	10071.0
55°	5140.9	5236.1	5348.7	6136.7	8290.0	11548.9	12819.0	12836.3	11603.8	11003.4	10509.8
57.5°	3755.3	3821.7	3706.3	4055.5	5692.2	9378.3	11725.0	12192.6	12238.8	11358.4	10778.2
60°	2869.2	2898.1	2768.2	2823.0	3538.9	6436.9	9069.4	9632.3	11040.9	9926.7	9130.0
62.5°	2225.5	2231.3	2228.4	2323.6	2439.1	3787.1	5672.0	6171.3	7611.7	7048.8	6200.2
65°	1639.5	1613.6	1659.7	1948.4	2081.2	2381.4	2987.5	3351.2	4136.4	3492.7	2496.8
67.5°	1062.2	1070.9	1117.1	1449.0	1783.9	1827.2	1838.7	1809.8	1812.7	998.7	626.4
70°	637.9	652.4	637.9	819.8	1275.8	1310.5	1197.9	1169.0	912.1	236.7	233.8
72.5°	378.1	357.9	320.4	352.2	531.1	635.0	571.5	568.6	357.9	138.6	138.6
75°	158.8	144.3	118.3	106.8	141.4	135.7	135.7	121.2	95.3	92.4	86.6
77.5°	31.8	31.8	23.1	26.0	34.6	40.4	49.1	49.1	57.7	57.7	54.8
80°	0.0	2.9	8.7	17.3	26.0	37.5	43.3	43.3	49.1	49.1	40.4
82.5°	0.0	2.9	8.7	17.3	23.1	34.6	43.3	43.3	49.1	52.0	43.3
85°	0.0	2.9	8.7	14.4	23.1	28.9	28.9	26.0	20.2	17.3	11.5
87.5°	0.0	0.0	2.9	5.8	2.9	5.8	5.8	5.8	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P530077

CATALOG NUMBER: GALN-SA5B-735-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2	5565.2
2.5°	5591.2	5588.3	5519.0	5406.4	5380.4	5285.2	5273.6	5215.9	5247.7	5140.9	5129.3
5°	5545.0	5510.3	5426.6	5354.5	5143.8	4993.7	4875.3	4731.0	4647.3	4661.7	4606.9
7.5°	5611.4	5521.9	5374.7	5123.5	4866.6	4604.0	4462.5	4168.1	4061.3	3902.6	3879.5
10°	5542.1	5475.7	5247.7	4832.0	4477.0	4098.8	3766.9	3440.7	3192.5	3085.7	3062.6
12.5°	5536.3	5420.9	5039.8	4578.0	4064.2	3521.5	3039.5	2632.5	2387.1	2248.6	2216.8
15°	5446.8	5308.3	4806.0	4185.4	3475.4	2799.9	2274.6	1882.0	1694.4	1613.6	1636.6
17.5°	5455.5	5247.7	4572.2	3769.8	2895.2	2055.2	1552.9	1350.9	1301.8	1322.0	1322.0
20°	5446.8	5112.0	4289.3	3290.6	2216.8	1425.9	1140.2	1068.0	1099.8	1163.3	1148.8
22.5°	5400.7	5048.5	4029.6	2785.5	1630.9	1056.5	915.0	917.9	967.0	1044.9	1062.2
25°	5435.3	4907.1	3700.5	2274.6	1189.2	842.9	793.8	814.0	866.0	923.7	935.2
27.5°	5409.3	4806.0	3357.0	1766.5	868.8	724.5	721.6	744.7	767.8	811.1	811.1
30°	5438.2	4713.7	3019.3	1313.4	715.9	663.9	652.4	669.7	692.8	701.4	698.5
32.5°	5545.0	4644.4	2629.6	981.4	632.1	606.2	606.2	606.2	603.3	614.8	617.7
35°	5778.8	4655.9	2286.1	759.2	577.3	557.1	548.4	536.9	531.1	536.9	539.8
37.5°	6032.8	4650.2	1931.1	646.6	536.9	519.6	499.4	482.0	479.2	484.9	476.3
40°	6145.4	4705.0	1602.0	580.2	499.4	479.2	447.4	433.0	435.9	441.6	435.9
42.5°	6298.4	4722.3	1388.4	528.2	464.7	433.0	412.8	395.5	392.6	401.2	398.3
45°	6295.5	4624.2	1163.3	499.4	433.0	398.3	372.4	357.9	357.9	363.7	366.6
47.5°	6480.2	4609.8	998.7	473.4	409.9	375.2	343.5	331.9	329.1	329.1	323.3
50°	6910.3	4811.8	871.7	444.5	381.0	349.3	323.3	308.9	297.3	291.5	288.7
52.5°	7750.3	5441.1	773.6	409.9	349.3	323.3	300.2	288.7	274.2	259.8	256.9
54°	8564.3	6090.5	767.8	381.0	323.3	306.0	285.8	280.0	262.7	242.5	236.7
55°	8930.8	6468.7	788.0	357.9	306.0	294.4	277.1	271.3	254.0	230.9	228.0
57.5°	9233.9	6615.9	776.5	297.3	277.1	274.2	259.8	251.1	230.9	199.2	193.4
60°	7432.8	5002.3	557.1	262.7	254.0	248.2	236.7	230.9	204.9	170.3	167.4
62.5°	4696.3	2877.8	355.0	230.9	222.3	213.6	199.2	193.4	170.3	135.7	127.0
65°	2000.3	1192.1	239.6	204.9	190.5	176.1	164.5	155.9	135.7	101.0	98.1
67.5°	519.6	424.3	199.2	179.0	158.8	138.6	129.9	115.5	92.4	69.3	66.4
70°	233.8	213.6	167.4	150.1	127.0	106.8	95.3	80.8	60.6	46.2	43.3
72.5°	138.6	135.7	127.0	112.6	95.3	80.8	69.3	54.8	40.4	26.0	26.0
75°	86.6	83.7	86.6	77.9	66.4	60.6	52.0	37.5	23.1	11.5	11.5
77.5°	52.0	52.0	52.0	49.1	46.2	46.2	37.5	23.1	11.5	2.9	2.9
80°	40.4	40.4	43.3	40.4	40.4	40.4	31.8	17.3	5.8	0.0	0.0
82.5°	40.4	43.3	49.1	46.2	40.4	34.6	28.9	17.3	5.8	0.0	0.0
85°	11.5	8.7	14.4	20.2	28.9	26.0	20.2	14.4	5.8	0.0	0.0
87.5°	5.8	5.8	5.8	5.8	2.9	2.9	2.9	2.9	2.9	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)