

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: P459016

Luminaire Tested: **GALN-SA5B-735-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21835 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

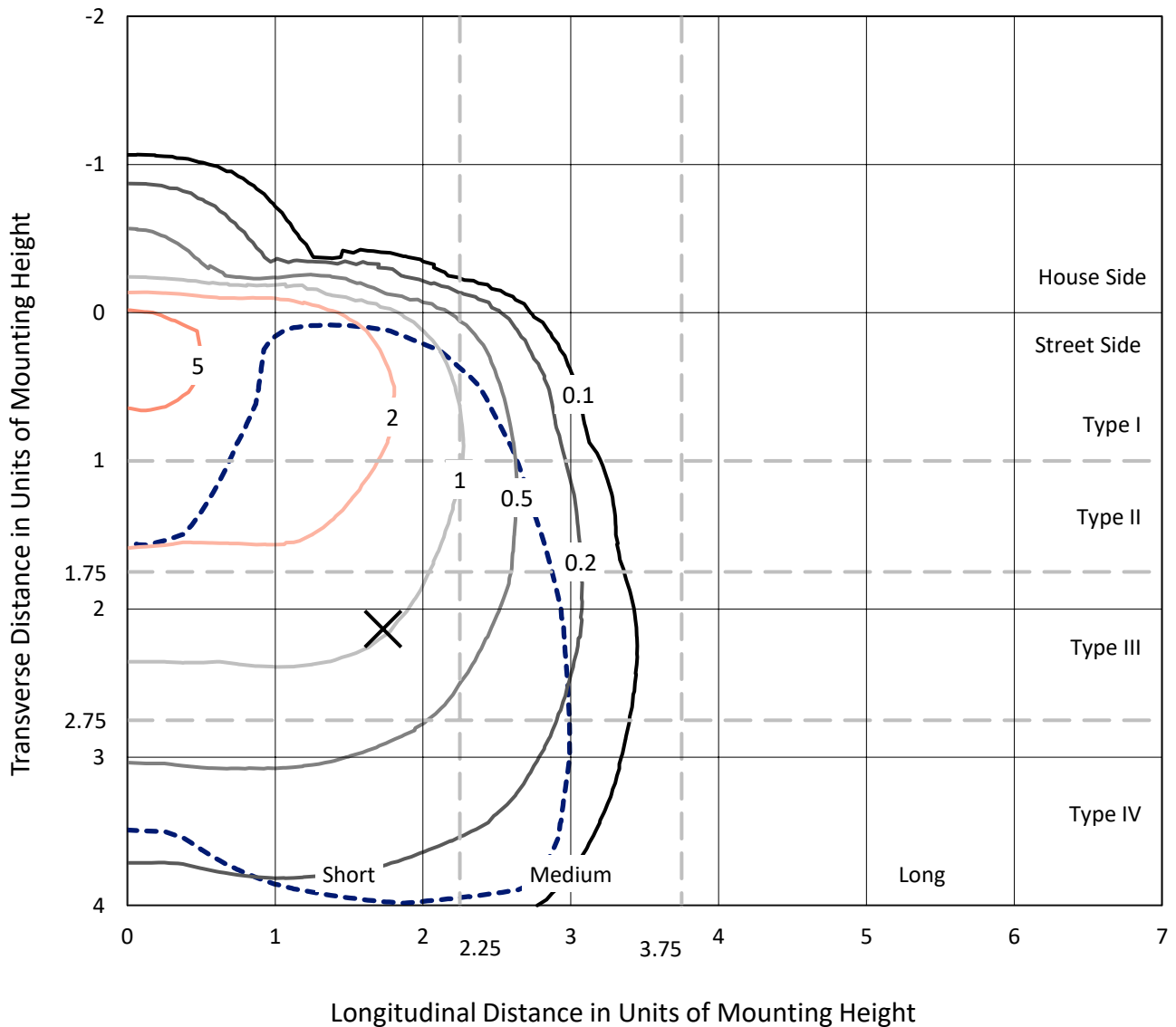
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459016
 CATALOG NUMBER: GALN-SA5B-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

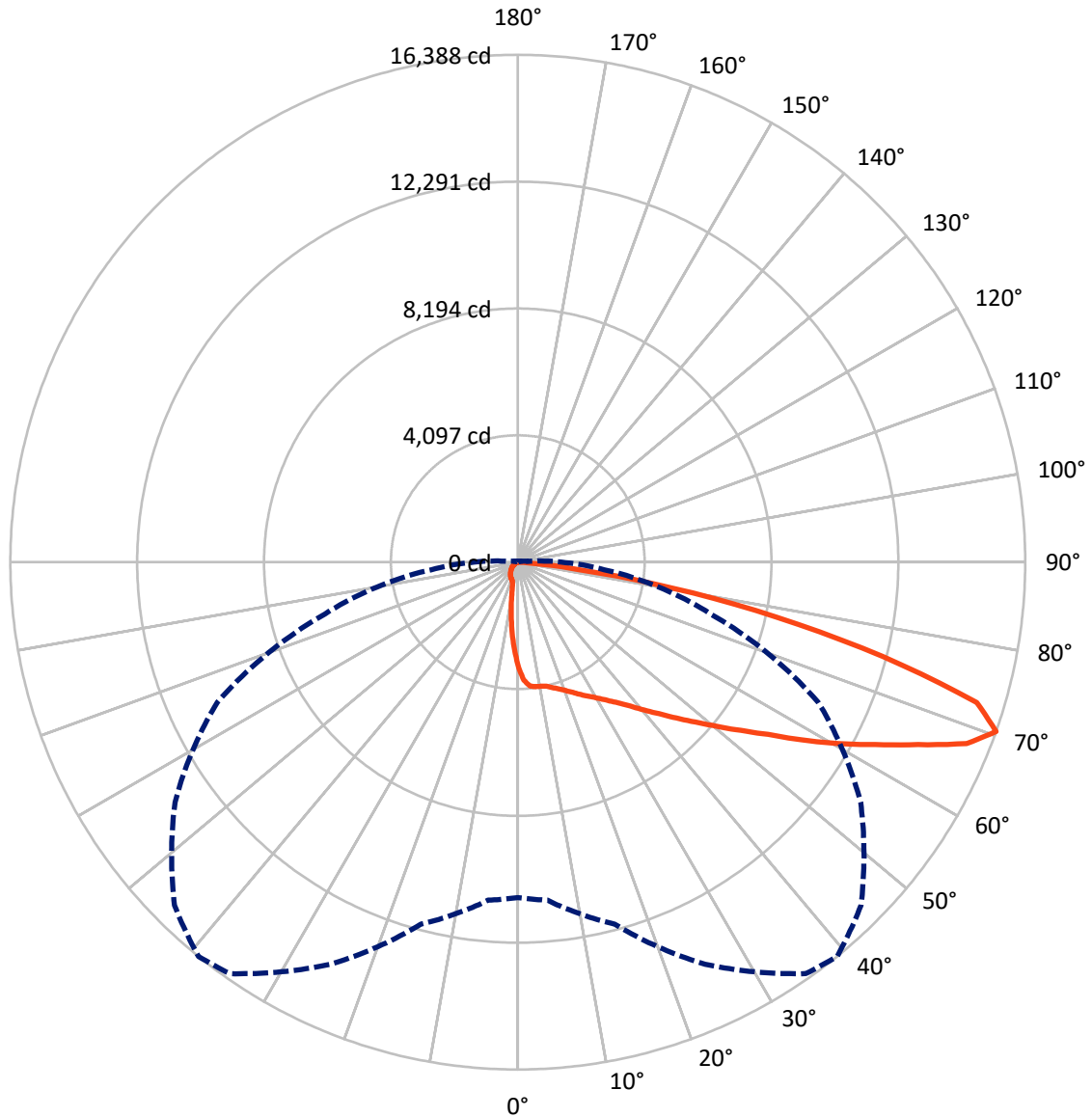
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P459016
CATALOG NUMBER: GALN-SA5B-735-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P459016

CATALOG NUMBER: GALN-SA5B-735-U-SL4-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1423.8	0.0	1423.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	20411.3	0.0	20411.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	21835.0	0.0	21835.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.6	1.3
10°-20°	755.2	3.5
20°-30°	1265.1	5.8
30°-40°	1962.0	9.0
40°-50°	3109.2	14.2
50°-60°	4557.7	20.9
60°-70°	5841.9	26.8
70°-80°	3670.8	16.8
80°-90°	382.4	1.8
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°	21835.0	100.0
0°-180°	21835.0	100.0

Coefficient of Utilization

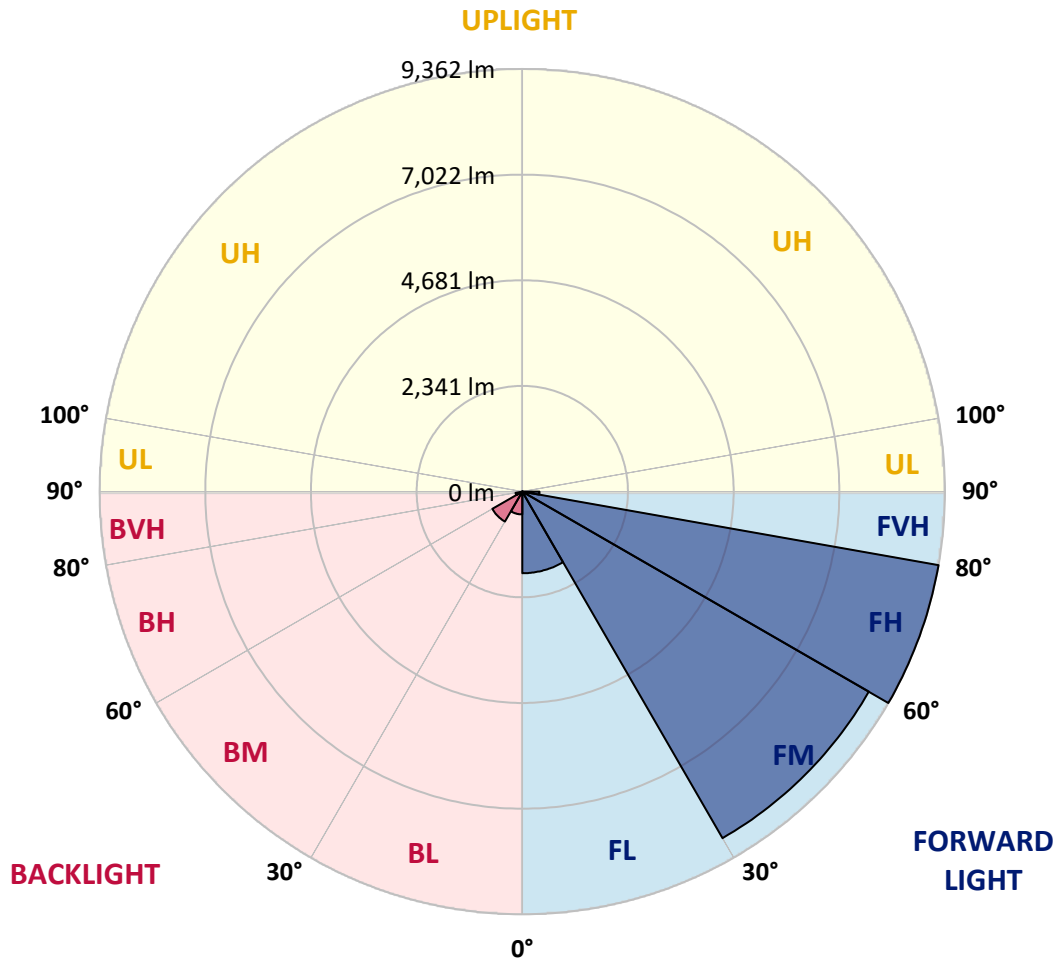


REPORT NUMBER: P459016
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1806.7	8.3			
FM (30°-60°)	8862.8	40.6			
FH (60°-80°)	9362.1	42.9			G4/12000
FVH (80°-90°)	379.6	1.7			G3/500
BL (0°-30°)	504.1	2.3	B2/1000		
BM (30°-60°)	766.2	3.5	B1/1000		
BH (60°-80°)	150.6	0.7	B1/500		G1/500
BVH (80°-90°)	2.8	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-G4
 Type IV Short





REPORT NUMBER: P459016

CATALOG NUMBER: GALN-SA5B-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0
2.5°	3936.7	3923.5	3905.9	3885.3	3826.6	3816.4	3781.2	3706.3	3616.8	3543.5	3442.2
5°	4123.0	4130.4	4117.2	4080.5	4037.9	4013.0	3969.0	3853.1	3737.1	3589.0	3423.1
7.5°	4165.6	4180.3	4164.1	4128.9	4087.8	4061.4	4026.2	3926.4	3791.4	3622.7	3395.3
10°	4161.2	4178.8	4168.5	4136.2	4102.5	4077.6	4039.4	3960.2	3851.6	3674.1	3404.1
12.5°	4153.9	4177.3	4175.9	4159.7	4131.8	4112.8	4089.3	4018.9	3917.6	3748.9	3452.5
15°	4133.3	4162.7	4189.1	4202.3	4203.7	4203.7	4174.4	4099.6	4002.7	3847.2	3515.6
17.5°	4142.1	4175.9	4241.9	4280.0	4306.4	4303.5	4272.7	4192.0	4084.9	3948.4	3581.6
20°	4196.4	4241.9	4334.3	4410.6	4437.0	4428.2	4387.1	4293.2	4171.5	4035.0	3646.2
22.5°	4329.9	4371.0	4486.9	4576.4	4595.5	4572.0	4513.3	4385.7	4275.6	4128.9	3723.9
25°	4529.5	4577.9	4685.0	4752.5	4752.5	4739.3	4657.1	4507.5	4393.0	4259.5	3825.2
27.5°	4771.6	4812.7	4918.3	4978.5	4943.2	4905.1	4822.9	4642.5	4532.4	4423.8	3947.0
30°	5016.6	5043.0	5154.5	5180.9	5144.3	5095.8	5007.8	4827.3	4730.5	4646.9	4123.0
32.5°	5248.4	5305.7	5398.1	5392.2	5342.3	5318.9	5238.2	5046.0	4991.7	4982.9	4369.5
35°	5480.3	5524.3	5606.5	5627.0	5583.0	5578.6	5519.9	5377.6	5379.0	5436.2	4754.0
37.5°	5679.8	5719.4	5816.3	5861.8	5870.6	5892.6	5869.1	5775.2	5908.7	6065.7	5263.1
40°	5847.1	5902.8	6026.1	6105.3	6196.3	6277.0	6281.4	6301.9	6570.5	6840.4	5927.8
42.5°	5977.7	6055.4	6234.4	6381.2	6589.5	6692.2	6774.4	6887.4	7339.3	7742.8	6711.3
45°	6147.9	6237.4	6460.4	6690.8	7016.5	7185.2	7299.7	7601.9	8243.1	8793.4	7515.4
47.5°	6429.6	6476.5	6704.0	7040.0	7468.4	7709.1	7932.1	8389.9	9213.0	9706.0	8184.5
50°	6792.0	6822.8	6994.5	7461.1	8015.7	8332.6	8739.1	9277.6	10219.6	10463.1	8563.0
52.5°	7192.6	7202.8	7332.0	7924.7	8629.0	9028.1	9483.0	10147.7	11039.8	11003.1	8813.9
55°	7657.7	7643.0	7753.1	8428.0	9355.3	9811.7	10341.3	11038.3	11751.4	11386.0	8957.7
57.5°	8190.3	8150.7	8257.8	9095.6	10285.6	10831.4	11369.9	11807.1	12303.1	11707.4	9026.7
60°	8747.9	8668.7	8796.3	9845.4	11381.6	11899.6	12347.1	12464.5	12884.1	11962.7	8907.8
62.5°	9192.5	9193.9	9431.6	10643.6	12508.5	12961.9	13199.6	13305.2	13384.5	11906.9	8282.8
65°	9886.5	9910.0	10290.0	11751.4	13812.9	14206.1	14369.0	14025.7	13406.5	11214.4	7343.7
67.5°	10602.5	10677.3	11372.8	13277.4	15319.8	15636.7	15426.9	14165.1	12807.8	9634.1	5568.3
70°	10835.8	10959.1	12105.0	14327.9	16223.6	16388.0	15677.8	13515.1	10706.7	6441.3	2802.5
72.5°	9929.0	10128.6	11683.9	13945.0	15647.0	15504.7	14027.1	11334.7	6806.7	2445.9	855.4
75°	7001.8	7089.9	9710.4	11568.0	12584.8	12181.3	10670.0	7307.0	2799.6	686.7	293.5
77.5°	3615.4	3572.8	5775.2	7675.3	8975.3	8557.1	6987.2	3782.6	1060.8	286.1	181.9
80°	1869.3	1900.1	2498.8	4021.8	5478.8	5041.6	3725.4	1753.4	564.9	158.5	139.4
82.5°	1047.6	983.1	1436.5	1756.3	2561.9	2008.7	1429.1	1241.3	246.5	95.4	132.1
85°	190.7	199.5	787.9	949.3	889.2	564.9	460.7	829.0	71.9	52.8	92.4
87.5°	2.9	2.9	152.6	272.9	173.1	79.2	145.3	118.8	14.7	20.5	16.1
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: P459016

CATALOG NUMBER: GALN-SA5B-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0	3407.0
2.5°	3390.9	3335.1	3230.9	3128.2	2997.6	2890.5	2818.6	2743.8	2667.5	2673.4	2691.0
5°	3332.2	3235.3	3029.9	2812.8	2604.4	2416.6	2231.7	2065.9	1998.4	1936.8	1939.7
7.5°	3273.5	3137.0	2836.2	2495.8	2180.4	1860.5	1628.7	1437.9	1336.7	1260.4	1238.4
10°	3247.1	3066.6	2658.7	2190.6	1743.1	1393.9	1096.1	940.5	820.2	782.1	792.3
12.5°	3258.8	3031.4	2498.8	1914.8	1382.2	971.3	763.0	683.7	657.3	652.9	650.0
15°	3280.8	3006.4	2341.8	1609.6	1015.4	721.9	641.2	626.5	623.6	620.7	622.1
17.5°	3310.2	2984.4	2174.5	1323.5	779.1	630.9	607.5	600.1	598.6	598.6	598.6
20°	3339.5	2959.5	1988.2	1068.2	650.0	595.7	581.0	576.6	575.2	575.2	573.7
22.5°	3373.3	2937.5	1798.9	839.3	598.6	570.8	557.6	554.6	553.2	551.7	551.7
25°	3421.7	2909.6	1597.9	686.7	566.4	547.3	534.1	531.2	529.7	523.8	525.3
27.5°	3486.2	2889.1	1391.0	592.8	537.0	517.9	509.1	504.7	501.8	497.4	498.9
30°	3574.3	2871.5	1170.9	541.4	503.3	487.1	478.3	475.4	472.5	468.1	468.1
32.5°	3726.9	2878.8	939.1	500.3	472.5	453.4	444.6	441.6	438.7	434.3	434.3
35°	3955.8	2921.3	751.2	465.1	435.8	416.7	407.9	407.9	403.5	397.6	396.2
37.5°	4329.9	3029.9	603.0	431.4	400.6	383.0	372.7	369.8	365.4	356.5	355.1
40°	4771.6	3198.7	507.7	397.6	368.3	350.7	341.9	333.1	321.3	312.5	311.1
42.5°	5326.2	3371.8	440.2	363.9	337.5	321.3	311.1	296.4	278.8	267.0	265.6
45°	5904.3	3530.3	394.7	333.1	308.1	294.9	283.2	259.7	237.7	223.0	221.6
47.5°	6335.7	3559.6	358.0	303.7	283.2	270.0	253.8	224.5	195.1	181.9	177.5
50°	6539.6	3417.3	319.9	274.4	258.2	243.6	223.0	189.3	157.0	140.9	137.9
52.5°	6611.5	3170.8	289.1	248.0	233.3	215.7	190.7	152.6	123.3	107.1	105.6
55°	6582.2	2859.7	261.2	223.0	204.0	183.4	158.5	121.8	91.0	77.8	74.8
57.5°	6428.1	2463.6	233.3	198.1	174.6	154.1	126.2	91.0	61.6	49.9	48.4
60°	6012.9	1923.6	205.4	170.2	148.2	126.2	99.8	64.6	38.1	27.9	27.9
62.5°	5311.5	1427.7	179.0	142.3	124.7	101.2	70.4	41.1	20.5	14.7	13.2
65°	4438.5	1053.5	149.7	120.3	104.2	79.2	49.9	24.9	10.3	4.4	2.9
67.5°	3097.4	650.0	124.7	98.3	85.1	57.2	30.8	10.3	4.4	0.0	0.0
70°	1407.1	309.6	95.4	74.8	64.6	41.1	16.1	5.9	2.9	0.0	0.0
72.5°	437.2	162.9	67.5	54.3	44.0	26.4	8.8	4.4	2.9	0.0	0.0
75°	202.5	104.2	42.6	29.3	24.9	13.2	5.9	2.9	1.5	0.0	0.0
77.5°	151.1	80.7	24.9	16.1	13.2	8.8	4.4	2.9	1.5	0.0	0.0
80°	132.1	41.1	14.7	10.3	7.3	5.9	2.9	1.5	0.0	0.0	0.0
82.5°	118.8	20.5	8.8	5.9	4.4	2.9	1.5	1.5	0.0	0.0	0.0
85°	64.6	11.7	5.9	4.4	2.9	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	11.7	5.9	4.4	2.9	2.9	1.5	1.5	1.5	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)