

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: P454521

Luminaire Tested: **GALN-SA5C-827-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454521
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-SA5C-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 21290 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

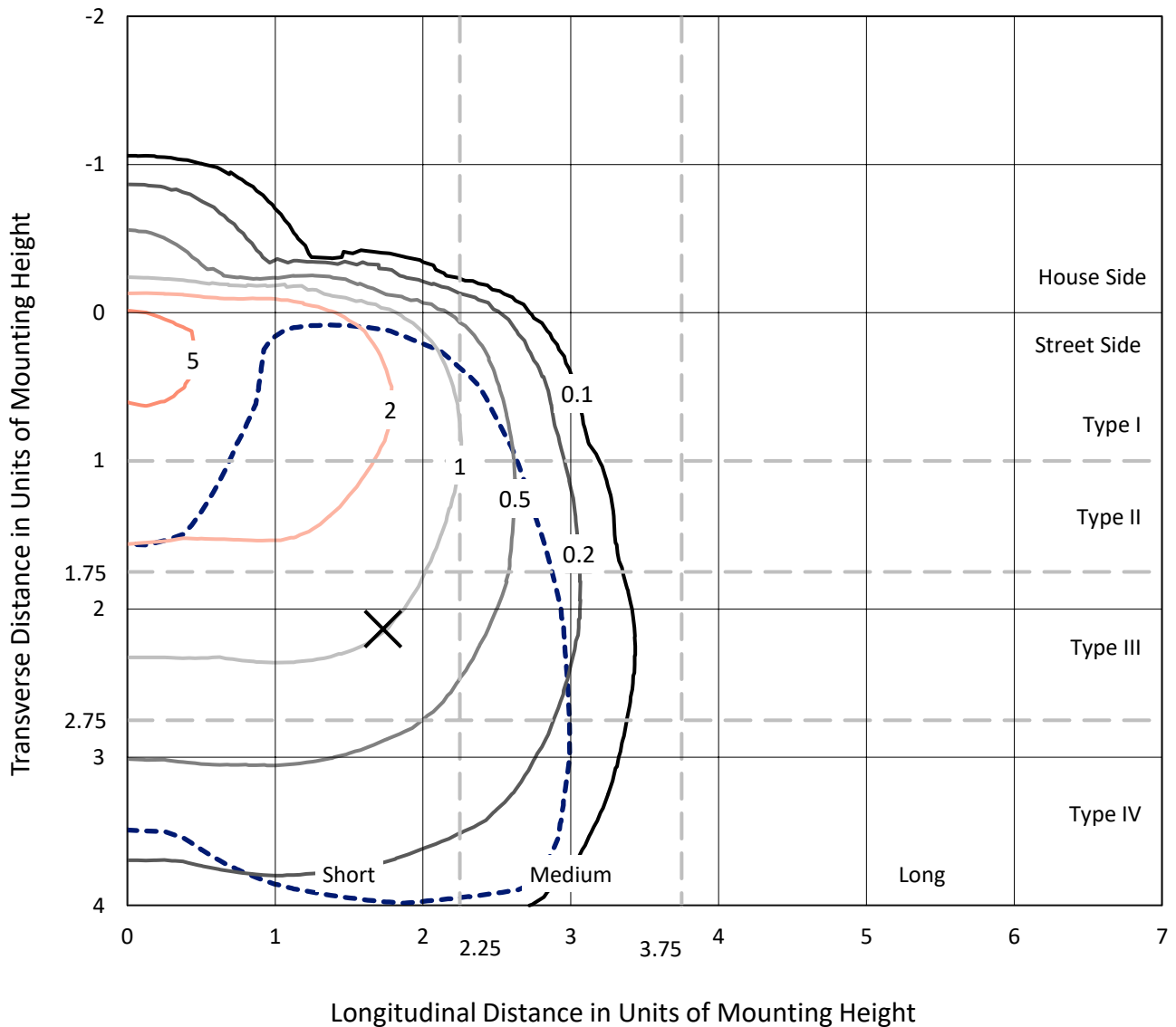
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

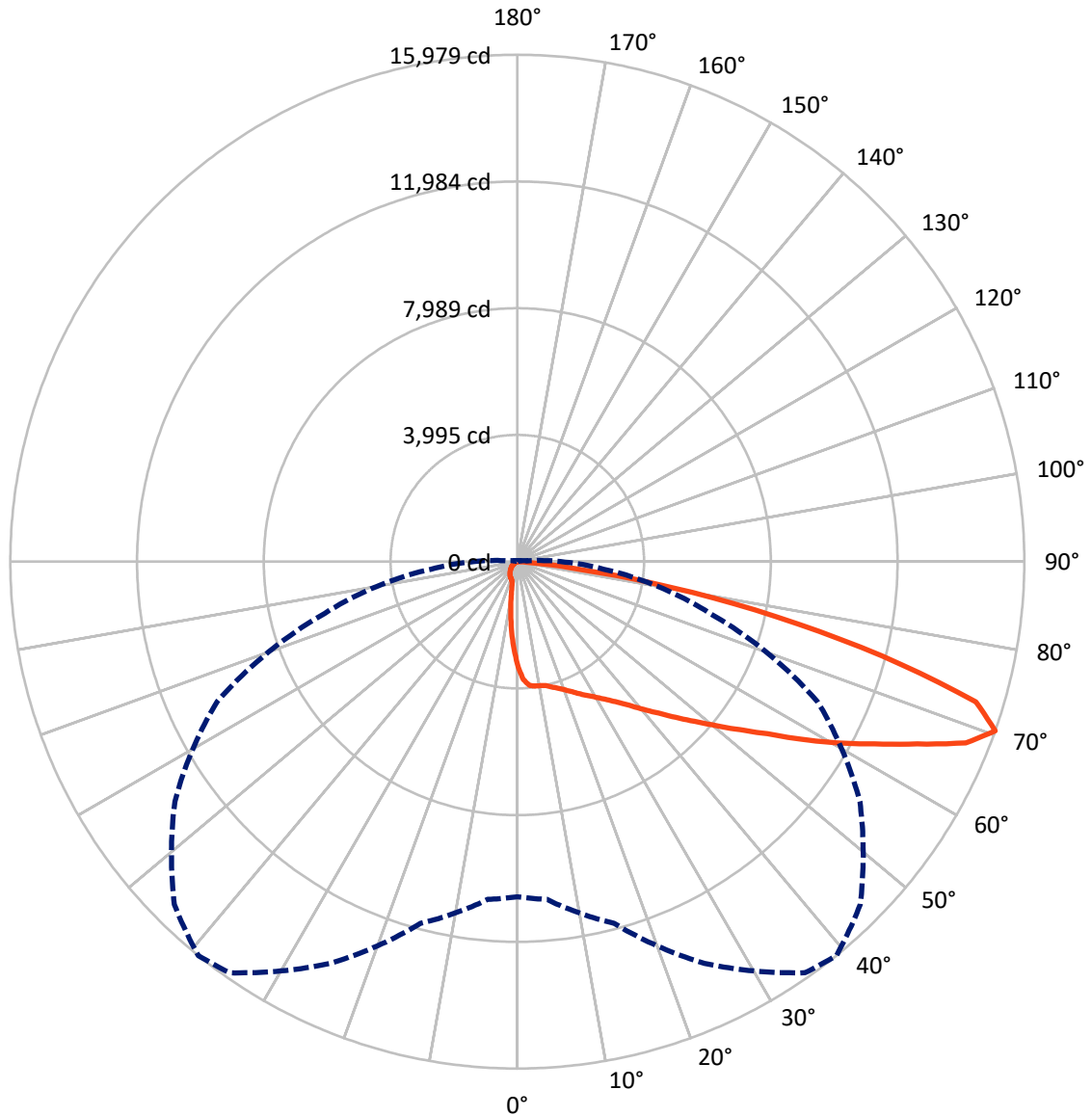
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1388.2	0.0	1388.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	19901.8	0.0	19901.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	21290.0	0.0	21290.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.3	1.3
10°-20°	736.3	3.5
20°-30°	1233.5	5.8
30°-40°	1913.1	9.0
40°-50°	3031.6	14.2
50°-60°	4443.9	20.9
60°-70°	5696.1	26.8
70°-80°	3579.2	16.8
80°-90°	372.9	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°	21290.0	100.0
0°-180°	21290.0	100.0

Coefficient of Utilization



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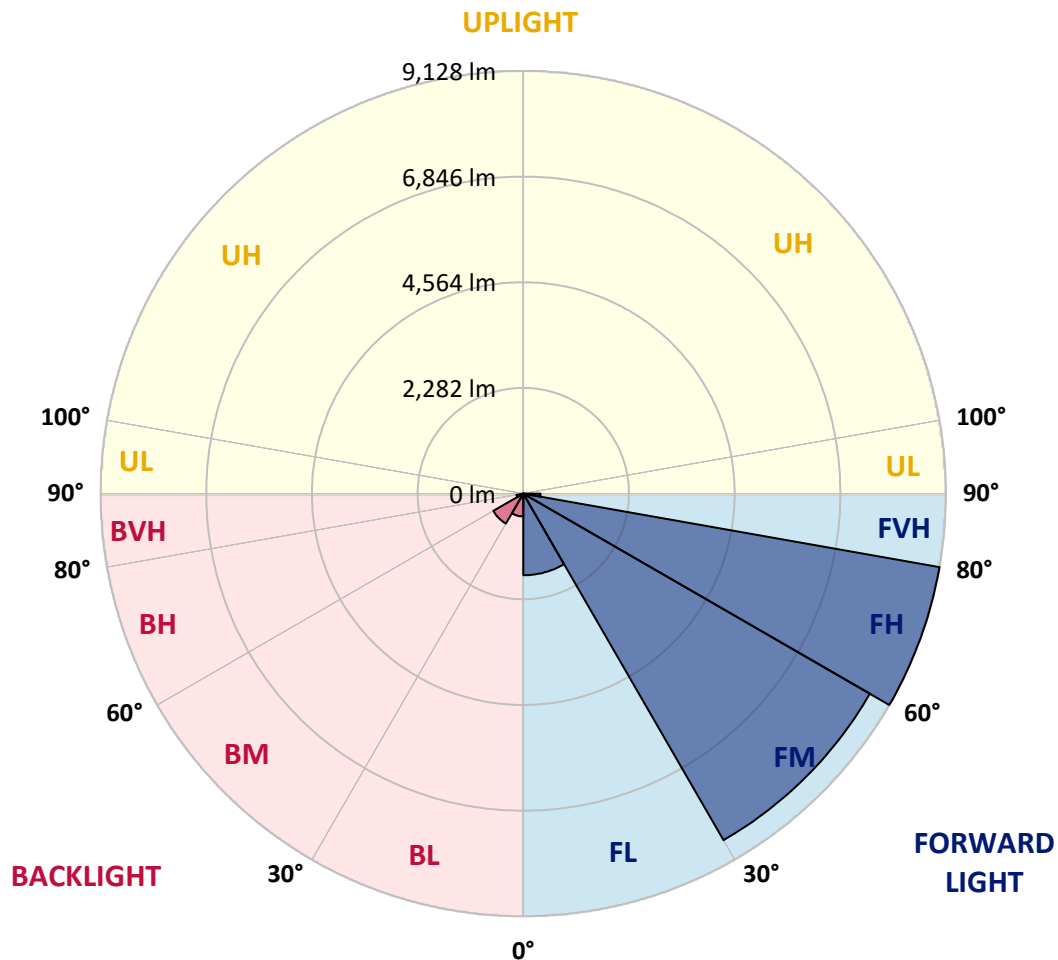
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1761.6	8.3			
FM (30°-60°)	8641.6	40.6			
FH (60°-80°)	9128.5	42.9			G4/12000
FVH (80°-90°)	370.1	1.7			G3/500
BL (0°-30°)	491.6	2.3	B1/500		
BM (30°-60°)	747.1	3.5	B1/1000		
BH (60°-80°)	146.8	0.7	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0
2.5°	3838.4	3825.6	3808.4	3788.4	3731.1	3721.1	3686.8	3613.8	3526.6	3455.0	3356.3
5°	4020.1	4027.3	4014.4	3978.6	3937.1	3912.8	3869.9	3756.9	3643.9	3499.4	3337.7
7.5°	4061.6	4075.9	4060.2	4025.9	3985.8	3960.0	3925.7	3828.4	3696.8	3532.3	3310.5
10°	4057.3	4074.5	4064.5	4033.0	4000.1	3975.8	3938.6	3861.3	3755.5	3582.3	3319.1
12.5°	4050.2	4073.1	4071.6	4055.9	4028.7	4010.1	3987.2	3918.6	3819.8	3655.3	3366.3
15°	4030.1	4058.8	4084.5	4097.4	4098.8	4098.8	4070.2	3997.2	3902.8	3751.2	3427.8
17.5°	4038.7	4071.6	4136.0	4173.2	4199.0	4196.1	4166.1	4087.4	3982.9	3849.9	3492.2
20°	4091.7	4136.0	4226.1	4300.5	4326.3	4317.7	4277.6	4186.1	4067.3	3934.3	3555.2
22.5°	4221.8	4261.9	4374.9	4462.2	4480.8	4457.9	4400.7	4276.2	4168.9	4025.9	3631.0
25°	4416.4	4463.6	4568.1	4633.9	4633.9	4621.0	4540.9	4395.0	4283.4	4153.2	3729.7
27.5°	4652.5	4692.5	4795.5	4854.2	4819.9	4782.7	4702.5	4526.6	4419.3	4313.4	3848.4
30°	4891.4	4917.1	5025.9	5051.6	5015.9	4968.6	4882.8	4706.8	4612.4	4530.9	4020.1
32.5°	5117.4	5173.2	5263.4	5257.6	5209.0	5186.1	5107.4	4920.0	4867.1	4858.5	4260.5
35°	5343.5	5386.4	5466.5	5486.5	5443.6	5439.3	5382.1	5243.3	5244.8	5300.6	4635.3
37.5°	5538.0	5576.7	5671.1	5715.4	5724.0	5745.5	5722.6	5631.0	5761.2	5914.3	5131.7
40°	5701.1	5755.5	5875.7	5952.9	6041.6	6120.3	6124.6	6144.6	6406.5	6669.7	5779.8
42.5°	5828.5	5904.3	6078.8	6221.9	6425.1	6525.2	6605.3	6715.5	7156.1	7549.5	6543.8
45°	5994.4	6081.7	6299.2	6523.8	6841.4	7005.9	7117.5	7412.2	8037.4	8573.9	7327.8
47.5°	6269.1	6314.9	6536.6	6864.3	7282.0	7516.6	7734.1	8180.5	8983.1	9463.8	7980.2
50°	6622.5	6652.5	6819.9	7274.9	7815.6	8124.7	8521.0	9046.0	9964.5	10202.0	8349.3
52.5°	7013.0	7023.1	7149.0	7726.9	8413.7	8802.8	9246.3	9894.4	10764.2	10728.4	8593.9
55°	7466.6	7452.3	7559.6	8217.7	9121.8	9566.8	10083.2	10762.8	11458.1	11101.8	8734.1
57.5°	7985.9	7947.3	8051.7	8868.6	10028.9	10561.1	11086.1	11512.4	11996.0	11415.2	8801.4
60°	8529.5	8452.3	8576.7	9599.7	11097.6	11602.6	12038.9	12153.4	12562.5	11664.1	8685.5
62.5°	8963.0	8964.5	9196.2	10377.9	12196.3	12638.4	12870.1	12973.1	13050.4	11609.7	8076.0
65°	9639.7	9662.6	10033.2	11458.1	13468.1	13851.6	14010.4	13675.6	13071.9	10934.5	7160.4
67.5°	10337.9	10410.8	11089.0	12946.0	14937.4	15246.4	15041.9	13811.5	12488.1	9393.7	5429.3
70°	10565.4	10685.5	11802.9	13970.3	15818.7	15978.9	15286.5	13177.7	10439.5	6280.6	2732.5
72.5°	9681.2	9875.8	11392.3	13596.9	15256.5	15117.7	13677.0	11051.8	6636.8	2384.9	834.1
75°	6827.1	6912.9	9468.0	11279.2	12270.7	11877.3	10403.7	7124.6	2729.7	669.5	286.1
77.5°	3525.1	3483.6	5631.0	7483.7	8751.3	8343.6	6812.8	3688.2	1034.4	279.0	177.4
80°	1822.6	1852.7	2436.4	3921.4	5342.0	4915.7	3632.4	1709.6	550.8	154.5	135.9
82.5°	1021.5	958.5	1400.6	1712.5	2497.9	1958.6	1393.5	1210.3	240.3	93.0	128.8
85°	186.0	194.6	768.3	925.6	867.0	550.8	449.2	808.3	70.1	51.5	90.1
87.5°	2.9	2.9	148.8	266.1	168.8	77.3	141.6	115.9	14.3	20.0	15.7
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°	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0	3322.0
2.5°	3306.2	3251.9	3150.3	3050.1	2922.8	2818.4	2748.3	2675.3	2600.9	2606.6	2623.8
5°	3249.0	3154.6	2954.3	2742.6	2539.4	2356.3	2176.0	2014.4	1948.5	1888.5	1891.3
7.5°	3191.8	3058.7	2765.4	2433.5	2125.9	1814.1	1588.0	1402.0	1303.3	1228.9	1207.5
10°	3166.0	2990.1	2592.3	2136.0	1699.6	1359.1	1068.7	917.0	799.7	762.5	772.6
12.5°	3177.5	2955.7	2436.4	1867.0	1347.7	947.1	743.9	666.7	640.9	636.6	633.8
15°	3198.9	2931.4	2283.3	1569.4	990.0	703.9	625.2	610.9	608.0	605.2	606.6
17.5°	3227.5	2909.9	2120.2	1290.4	759.7	615.2	592.3	585.1	583.7	583.7	583.7
20°	3256.2	2885.6	1938.5	1041.5	633.8	580.8	566.5	562.2	560.8	560.8	559.4
22.5°	3289.1	2864.2	1754.0	818.3	583.7	556.5	543.6	540.8	539.4	537.9	537.9
25°	3336.3	2837.0	1558.0	669.5	552.2	533.6	520.8	517.9	516.5	510.7	512.2
27.5°	3399.2	2817.0	1356.3	578.0	523.6	505.0	496.4	492.1	489.3	485.0	486.4
30°	3485.1	2799.8	1141.7	527.9	490.7	475.0	466.4	463.5	460.7	456.4	456.4
32.5°	3633.9	2806.9	915.6	487.9	460.7	442.1	433.5	430.6	427.8	423.5	423.5
35°	3857.0	2848.4	732.5	453.5	424.9	406.3	397.7	397.7	393.4	387.7	386.3
37.5°	4221.8	2954.3	588.0	420.6	390.6	373.4	363.4	360.5	356.2	347.6	346.2
40°	4652.5	3118.8	495.0	387.7	359.1	341.9	333.3	324.8	313.3	304.7	303.3
42.5°	5193.3	3287.6	429.2	354.8	329.0	313.3	303.3	289.0	271.8	260.4	258.9
45°	5756.9	3442.1	384.8	324.8	300.4	287.6	276.1	253.2	231.8	217.5	216.0
47.5°	6177.5	3470.8	349.1	296.1	276.1	263.2	247.5	218.9	190.3	177.4	173.1
50°	6376.4	3332.0	311.9	267.5	251.8	237.5	217.5	184.6	153.1	137.3	134.5
52.5°	6446.5	3091.6	281.8	241.8	227.5	210.3	186.0	148.8	120.2	104.4	103.0
55°	6417.9	2788.3	254.7	217.5	198.9	178.8	154.5	118.7	88.7	75.8	73.0
57.5°	6267.7	2402.1	227.5	193.1	170.2	150.2	123.0	88.7	60.1	48.6	47.2
60°	5862.8	1875.6	200.3	166.0	144.5	123.0	97.3	62.9	37.2	27.2	27.2
62.5°	5179.0	1392.0	174.5	138.8	121.6	98.7	68.7	40.1	20.0	14.3	12.9
65°	4327.7	1027.2	145.9	117.3	101.6	77.3	48.6	24.3	10.0	4.3	2.9
67.5°	3020.1	633.8	121.6	95.9	83.0	55.8	30.0	10.0	4.3	0.0	0.0
70°	1372.0	301.9	93.0	73.0	62.9	40.1	15.7	5.7	2.9	0.0	0.0
72.5°	426.3	158.8	65.8	52.9	42.9	25.8	8.6	4.3	2.9	0.0	0.0
75°	197.4	101.6	41.5	28.6	24.3	12.9	5.7	2.9	1.4	0.0	0.0
77.5°	147.4	78.7	24.3	15.7	12.9	8.6	4.3	2.9	1.4	0.0	0.0
80°	128.8	40.1	14.3	10.0	7.2	5.7	2.9	1.4	0.0	0.0	0.0
82.5°	115.9	20.0	8.6	5.7	4.3	2.9	1.4	1.4	0.0	0.0	0.0
85°	62.9	11.4	5.7	4.3	2.9	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	11.4	5.7	4.3	2.9	2.9	1.4	1.4	1.4	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)