

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: P456928

Luminaire Tested: **GALN-SA8B-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456928
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-SA8B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 31609 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

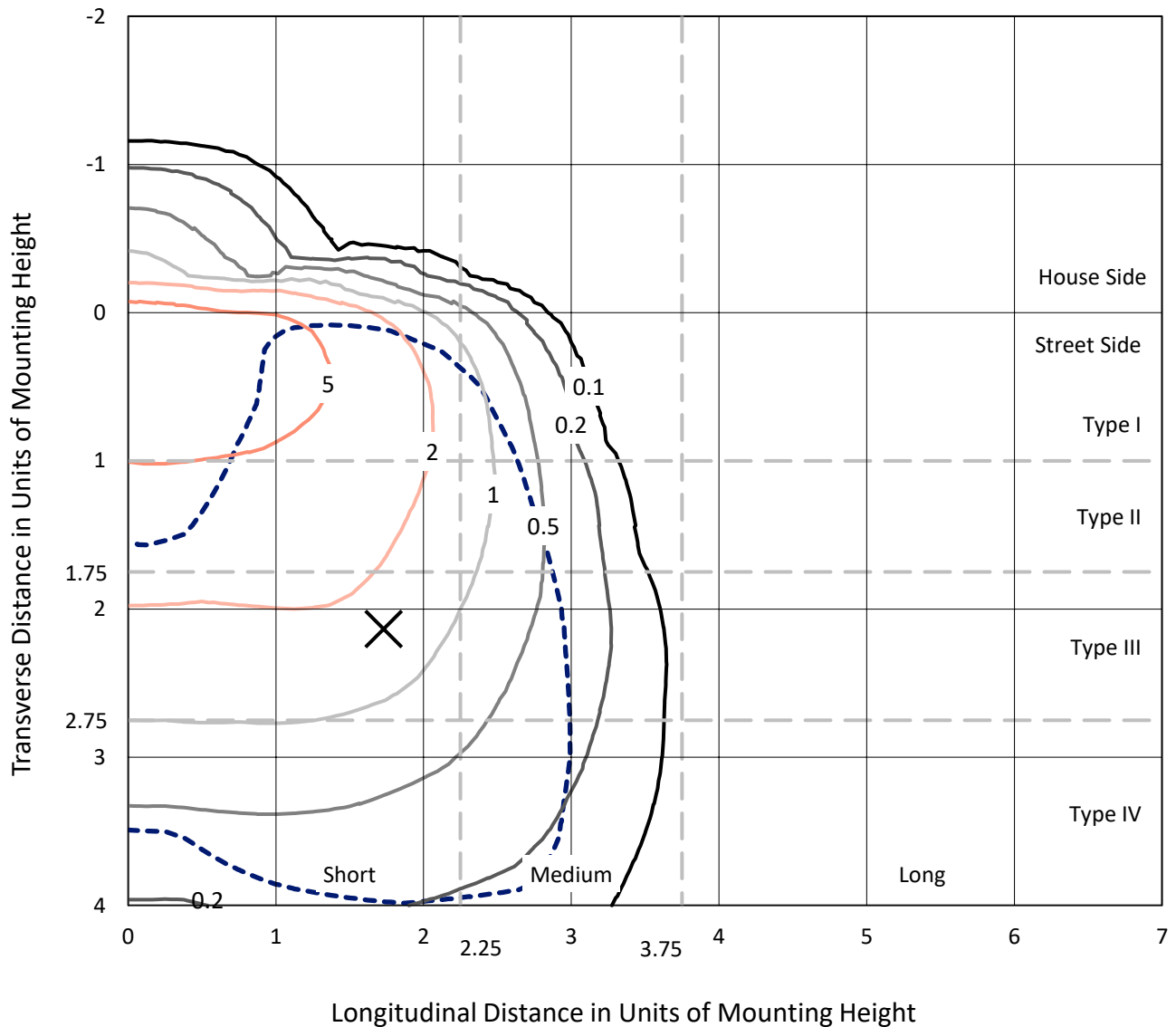
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

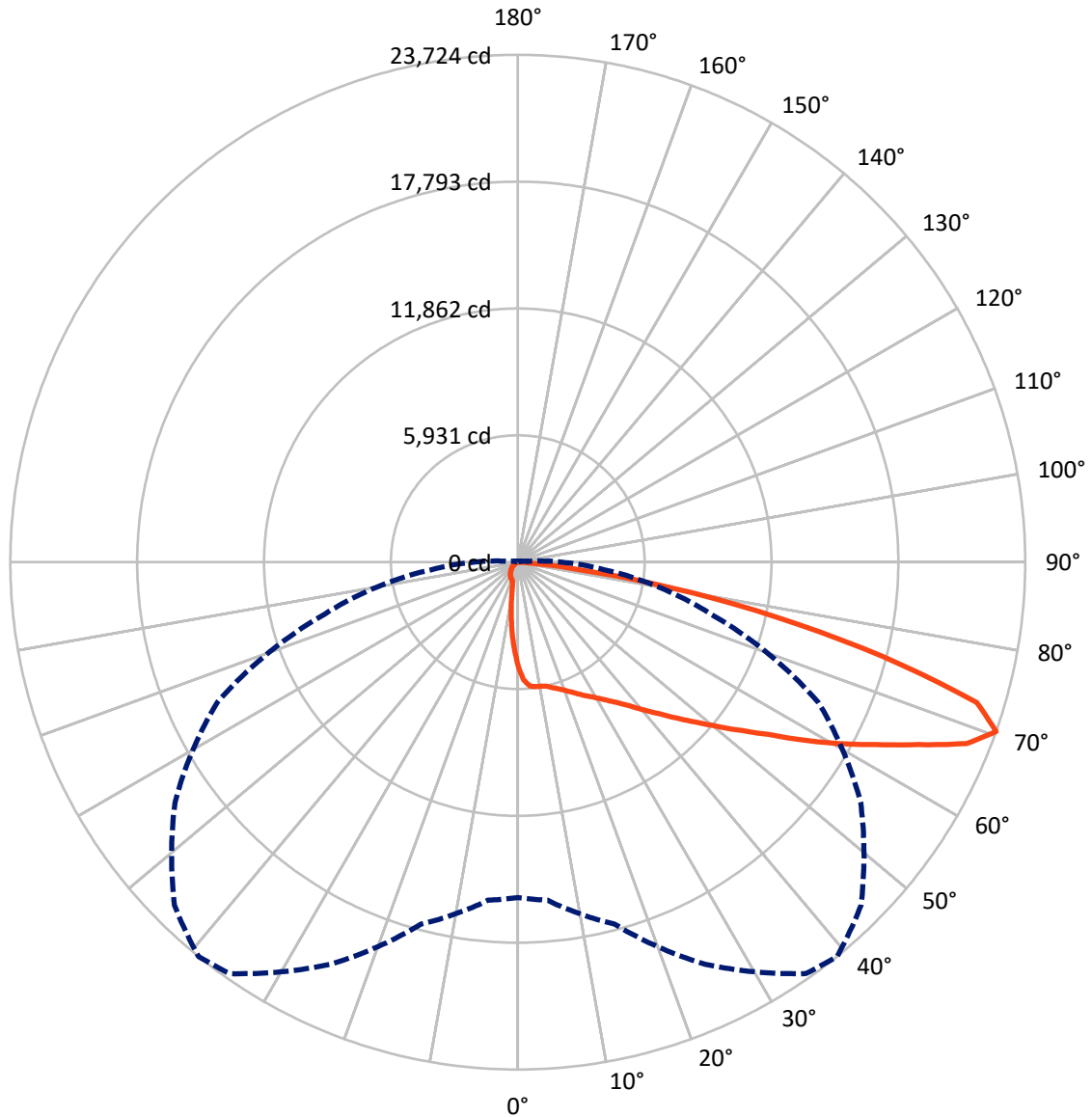
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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	2061.0	0.0	2061.0
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	29548.0	0.0	29548.0
	% Fixture	93.5	0.0	93.5
Total	Lumens	31609.0	0.0	31609.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.7	1.3
10°-20°	1093.2	3.5
20°-30°	1831.4	5.8
30°-40°	2840.3	9.0
40°-50°	4501.0	14.2
50°-60°	6597.9	20.9
60°-70°	8456.9	26.8
70°-80°	5314.0	16.8
80°-90°	553.6	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°	31609.0	100.0
0°-180°	31609.0	100.0



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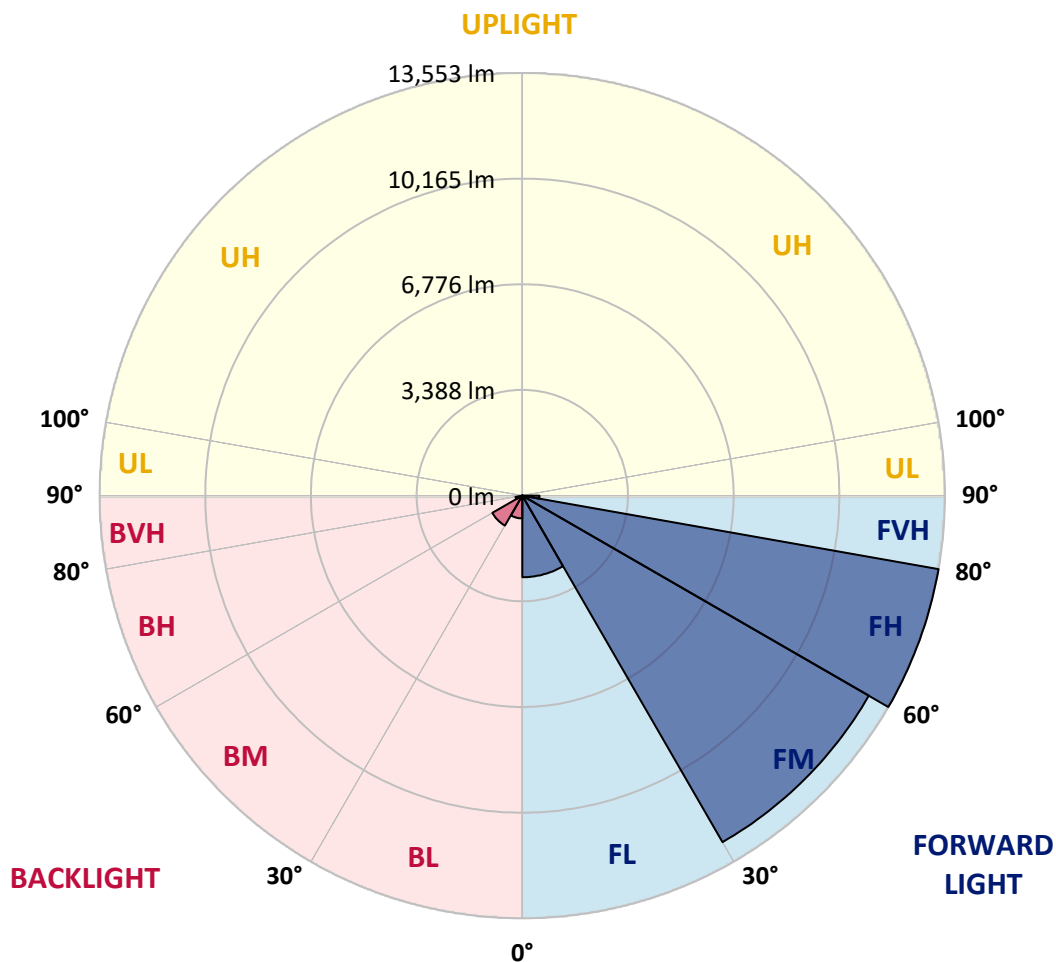
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2615.5	8.3			
FM (30°-60°)	12830.0	40.6			
FH (60°-80°)	13552.9	42.9			G5
FVH (80°-90°)	549.5	1.7			G4/750
BL (0°-30°)	729.8	2.3	B2/1000		
BM (30°-60°)	1109.2	3.5	B2/2500		
BH (60°-80°)	218.0	0.7	B1/500		G1/500
BVH (80°-90°)	4.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1
2.5°	5698.9	5679.8	5654.3	5624.5	5539.6	5524.7	5473.7	5365.4	5235.8	5129.6	4983.1
5°	5968.6	5979.3	5960.1	5907.0	5845.4	5809.3	5745.6	5577.8	5410.0	5195.5	4955.5
7.5°	6030.2	6051.5	6028.1	5977.1	5917.7	5879.4	5828.4	5684.0	5488.6	5244.3	4915.1
10°	6023.9	6049.3	6034.5	5987.8	5938.9	5902.8	5847.6	5732.9	5575.7	5318.7	4927.8
12.5°	6013.2	6047.2	6045.1	6021.7	5981.4	5953.8	5919.8	5817.8	5671.3	5427.0	4997.9
15°	5983.5	6026.0	6064.2	6083.3	6085.5	6085.5	6043.0	5934.6	5794.5	5569.3	5089.3
17.5°	5996.2	6045.1	6140.7	6195.9	6234.1	6229.9	6185.3	6068.5	5913.4	5715.9	5184.9
20°	6074.8	6140.7	6274.5	6385.0	6423.2	6410.4	6351.0	6215.0	6038.7	5841.2	5278.3
22.5°	6268.1	6327.6	6495.4	6625.0	6652.6	6618.6	6533.6	6348.8	6189.5	5977.1	5390.9
25°	6557.0	6627.1	6782.2	6879.9	6879.9	6860.7	6741.8	6525.1	6359.5	6166.2	5537.4
27.5°	6907.5	6966.9	7119.9	7207.0	7156.0	7100.8	6981.8	6720.6	6561.2	6404.1	5713.7
30°	7262.2	7300.4	7461.9	7500.1	7447.0	7376.9	7249.4	6988.2	6848.0	6726.9	5968.6
32.5°	7597.8	7680.6	7814.4	7806.0	7733.7	7699.8	7582.9	7304.7	7226.1	7213.3	6325.5
35°	7933.4	7997.1	8116.1	8145.8	8082.1	8075.7	7990.7	7784.7	7786.8	7869.7	6882.0
37.5°	8222.3	8279.6	8419.8	8485.7	8498.4	8530.3	8496.3	8360.3	8553.6	8780.9	7619.0
40°	8464.4	8545.1	8723.6	8838.3	8969.9	9086.8	9093.1	9122.9	9511.6	9902.4	8581.2
42.5°	8653.5	8766.0	9025.2	9237.6	9539.2	9687.9	9806.8	9970.4	10624.6	11208.7	9715.5
45°	8899.8	9029.4	9352.3	9685.8	10157.3	10401.6	10567.2	11004.8	11933.0	12729.5	10879.5
47.5°	9307.7	9375.6	9704.9	10191.3	10811.5	11159.9	11482.7	12145.4	13337.0	14050.7	11848.1
50°	9832.3	9876.9	10125.4	10800.9	11603.8	12062.6	12651.0	13430.5	14794.1	15146.7	12396.1
52.5°	10412.2	10427.1	10614.0	11472.1	12491.6	13069.4	13727.9	14690.1	15981.5	15928.4	12759.3
55°	11085.5	11064.3	11223.6	12200.7	13543.1	14203.6	14970.4	15979.4	17011.7	16482.8	12967.4
57.5°	11856.6	11799.2	11954.3	13167.1	14889.7	15679.9	16459.4	17092.4	17810.3	16947.9	13067.3
60°	12663.7	12549.0	12733.8	14252.5	16476.4	17226.2	17874.0	18044.0	18651.4	17317.5	12895.2
62.5°	13307.3	13309.4	13653.5	15408.0	18107.7	18764.0	19108.1	19261.1	19375.8	17236.8	11990.4
65°	14312.0	14346.0	14896.1	17011.7	19996.0	20565.2	20801.0	20304.0	19407.6	16234.3	10631.0
67.5°	15348.5	15456.9	16463.7	19220.7	22177.4	22636.2	22332.5	20505.8	18541.0	13946.6	8060.8
70°	15686.2	15864.7	17523.6	20741.5	23485.8	23723.7	22695.7	19564.8	15499.3	9324.7	4057.0
72.5°	14373.6	14662.4	16914.0	20187.2	22651.1	22445.0	20306.1	16408.4	9853.6	3540.8	1238.3
75°	10136.1	10263.5	14057.1	16746.2	18218.1	17634.0	15446.2	10577.9	4052.7	994.1	424.8
77.5°	5233.7	5172.1	8360.3	11111.0	12992.9	12387.6	10114.8	5475.8	1535.7	414.2	263.4
80°	2706.1	2750.7	3617.3	5822.1	7931.3	7298.3	5393.0	2538.3	817.8	229.4	201.8
82.5°	1516.6	1423.1	2079.5	2542.5	3708.6	2907.9	2068.8	1797.0	356.8	138.1	191.2
85°	276.1	288.9	1140.6	1374.3	1287.2	817.8	667.0	1200.1	104.1	76.5	133.8
87.5°	4.2	4.2	220.9	395.1	250.6	114.7	210.3	172.0	21.2	29.7	23.4
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°	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1	4932.1
2.5°	4908.7	4828.0	4677.2	4528.5	4339.5	4184.4	4080.3	3972.0	3861.6	3870.1	3895.5
5°	4823.8	4683.6	4386.2	4071.8	3770.2	3498.3	3230.7	2990.7	2893.0	2803.8	2808.0
7.5°	4738.8	4541.3	4105.8	3613.0	3156.4	2693.3	2357.7	2081.6	1935.0	1824.6	1792.7
10°	4700.6	4439.3	3848.8	3171.2	2523.4	2017.9	1586.7	1361.5	1187.4	1132.1	1147.0
12.5°	4717.6	4388.3	3617.3	2771.9	2000.9	1406.1	1104.5	989.8	951.6	945.2	941.0
15°	4749.4	4352.2	3390.0	2330.1	1469.9	1045.0	928.2	907.0	902.7	898.5	900.6
17.5°	4791.9	4320.4	3147.9	1915.9	1127.9	913.3	879.4	868.7	866.6	866.6	866.6
20°	4834.4	4284.2	2878.1	1546.3	941.0	862.4	841.1	834.8	832.6	832.6	830.5
22.5°	4883.2	4252.4	2604.1	1215.0	866.6	826.3	807.1	802.9	800.8	798.6	798.6
25°	4953.3	4212.0	2313.1	994.1	819.9	792.3	773.2	768.9	766.8	758.3	760.4
27.5°	5046.8	4182.3	2013.6	858.1	777.4	749.8	737.1	730.7	726.4	720.1	722.2
30°	5174.2	4156.8	1695.0	783.8	728.6	705.2	692.4	688.2	684.0	677.6	677.6
32.5°	5395.1	4167.4	1359.4	724.3	684.0	656.3	643.6	639.3	635.1	628.7	628.7
35°	5726.5	4229.0	1087.5	673.3	630.8	603.2	590.5	590.5	584.1	575.6	573.5
37.5°	6268.1	4386.2	873.0	624.5	579.9	554.4	539.5	535.3	528.9	516.1	514.0
40°	6907.5	4630.5	734.9	575.6	533.1	507.7	494.9	482.2	465.2	452.4	450.3
42.5°	7710.4	4881.1	637.2	526.8	488.5	465.2	450.3	429.1	403.6	386.6	384.5
45°	8547.3	5110.5	571.4	482.2	446.1	426.9	409.9	376.0	344.1	322.9	320.7
47.5°	9171.7	5153.0	518.3	439.7	409.9	390.8	367.5	325.0	282.5	263.4	257.0
50°	9467.0	4947.0	463.0	397.2	373.8	352.6	322.9	274.0	227.3	203.9	199.7
52.5°	9571.1	4590.1	418.4	359.0	337.7	312.2	276.1	220.9	178.4	155.1	152.9
55°	9528.6	4139.8	378.1	322.9	295.2	265.5	229.4	176.3	131.7	112.6	108.3
57.5°	9305.5	3566.3	337.7	286.7	252.8	223.0	182.7	131.7	89.2	72.2	70.1
60°	8704.4	2784.7	297.4	246.4	214.5	182.7	144.4	93.5	55.2	40.4	40.4
62.5°	7689.1	2066.7	259.1	206.0	180.5	146.6	102.0	59.5	29.7	21.2	19.1
65°	6425.3	1525.1	216.7	174.2	150.8	114.7	72.2	36.1	14.9	6.4	4.2
67.5°	4483.9	941.0	180.5	142.3	123.2	82.8	44.6	14.9	6.4	0.0	0.0
70°	2037.0	448.2	138.1	108.3	93.5	59.5	23.4	8.5	4.2	0.0	0.0
72.5°	633.0	235.8	97.7	78.6	63.7	38.2	12.7	6.4	4.2	0.0	0.0
75°	293.1	150.8	61.6	42.5	36.1	19.1	8.5	4.2	2.1	0.0	0.0
77.5°	218.8	116.8	36.1	23.4	19.1	12.7	6.4	4.2	2.1	0.0	0.0
80°	191.2	59.5	21.2	14.9	10.6	8.5	4.2	2.1	0.0	0.0	0.0
82.5°	172.0	29.7	12.7	8.5	6.4	4.2	2.1	2.1	0.0	0.0	0.0
85°	93.5	17.0	8.5	6.4	4.2	2.1	2.1	0.0	0.0	0.0	0.0
87.5°	17.0	8.5	6.4	4.2	4.2	2.1	2.1	2.1	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)