

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: P457970

Luminaire Tested: **GALN-SA9B-760-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457970
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-760-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42672 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

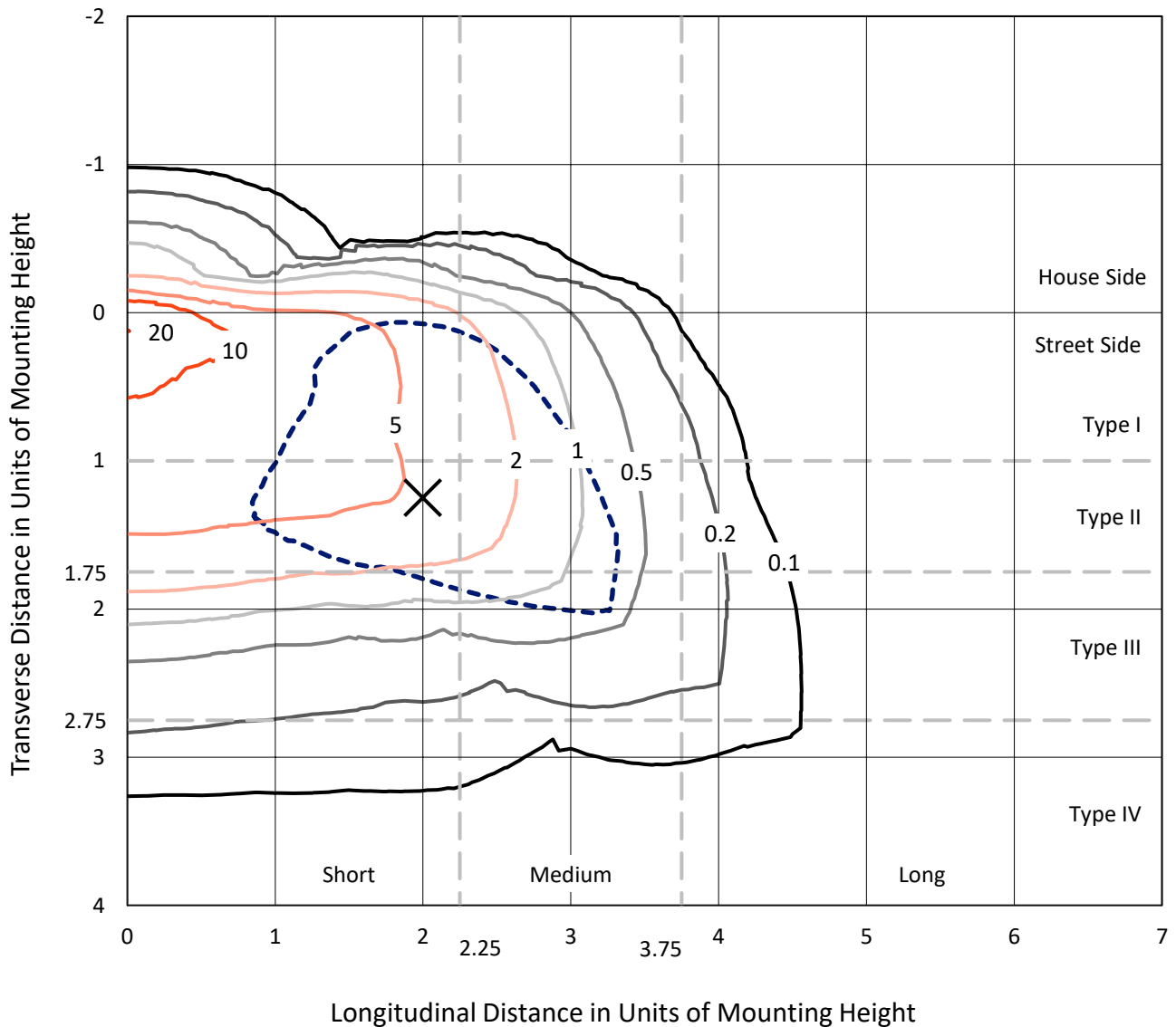
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

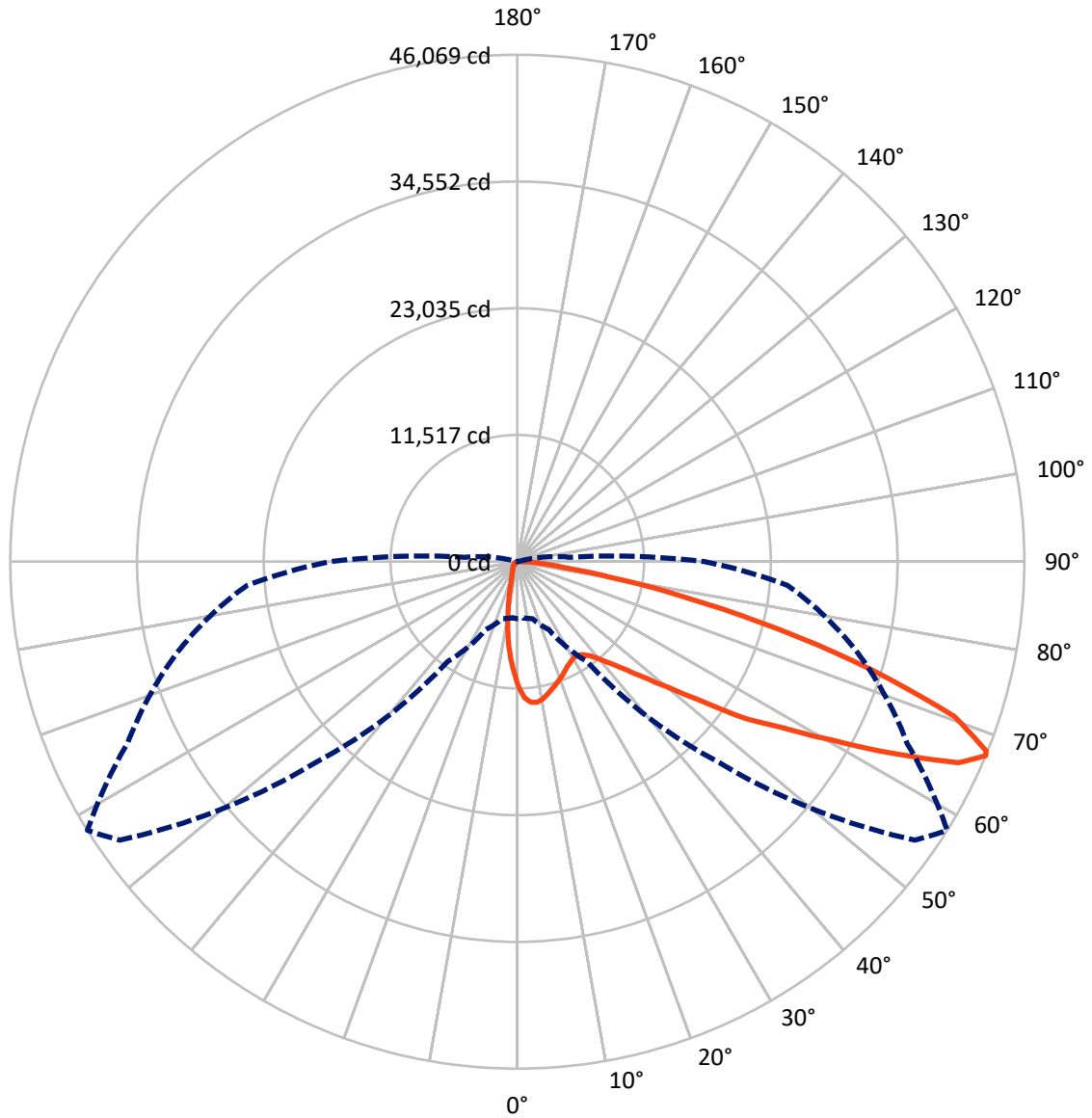
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3079.5	0.0	3079.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	39592.5	0.0	39592.5
	% Fixture	92.8	0.0	92.8
Total	Lumens	42672.0	0.0	42672.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	917.9	2.2
10°-20°	1982.5	4.6
20°-30°	2686.5	6.3
30°-40°	3726.0	8.7
40°-50°	5942.5	13.9
50°-60°	10272.1	24.1
60°-70°	11733.9	27.5
70°-80°	4892.0	11.5
80°-90°	518.7	1.2
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°	42672.0	100.0
0°-180°	42672.0	100.0

Coefficient of Utilization



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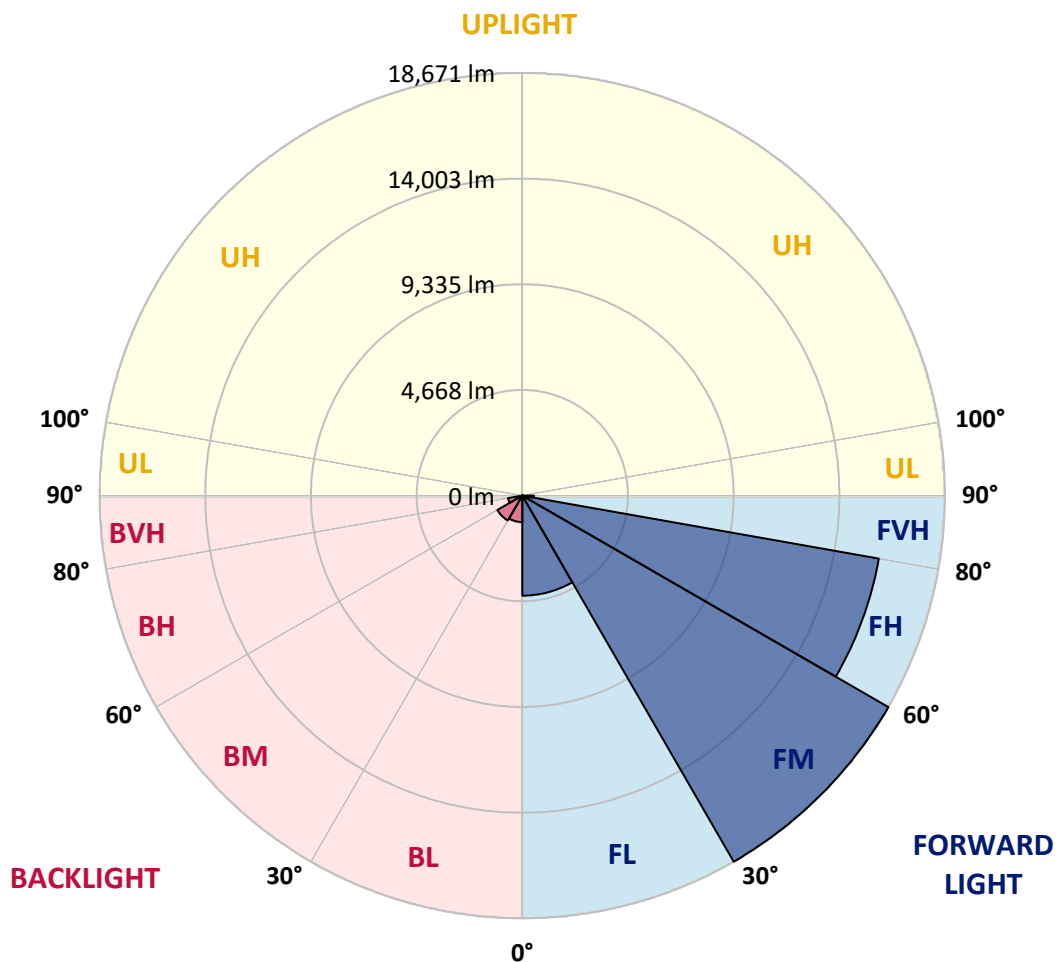
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4417.6	10.4			
FM (30°-60°)	18670.8	43.8			
FH (60°-80°)	15989.3	37.5			G5
FVH (80°-90°)	514.9	1.2			G4/750
BL (0°-30°)	1169.3	2.7	B3/2500		
BM (30°-60°)	1269.7	3.0	B2/2500		
BH (60°-80°)	636.6	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0
2.5°	13128.4	13148.3	13074.2	13014.3	12860.3	12694.9	12475.4	12358.5	12158.9	11813.8	11431.7
5°	13436.3	13462.0	13450.6	13436.3	13376.5	13216.8	12937.3	12834.7	12541.0	11979.2	11289.1
7.5°	12752.0	12846.1	12857.5	12968.7	13074.2	13088.4	12982.9	12906.0	12635.1	11976.4	11035.4
10°	11845.2	11907.9	11999.2	12127.5	12381.3	12592.3	12694.9	12683.5	12526.7	11888.0	10738.8
12.5°	10929.9	10964.1	11103.8	11323.4	11634.2	11993.5	12267.2	12321.4	12324.2	11782.5	10490.7
15°	10142.8	10128.6	10236.9	10490.7	10927.0	11377.5	11868.0	11953.5	12090.4	11679.8	10259.7
17.5°	9469.9	9544.0	9561.1	9840.6	10242.6	10827.2	11451.7	11602.8	11876.6	11591.4	10068.7
20°	9053.6	9093.5	9130.5	9287.4	9649.5	10265.4	11061.0	11269.2	11676.9	11511.6	9854.8
22.5°	8930.9	8956.6	8925.2	8973.7	9230.4	9777.8	10636.1	10912.7	11485.9	11437.4	9680.9
25°	9025.0	9050.7	8976.6	8919.5	9007.9	9381.5	10225.5	10562.0	11331.9	11423.2	9549.7
27.5°	9253.2	9301.6	9199.0	9096.3	9045.0	9167.6	9903.3	10294.0	11226.4	11491.6	9489.8
30°	9609.6	9638.1	9561.1	9435.7	9318.7	9196.1	9735.1	10108.6	11197.9	11651.3	9484.1
32.5°	9997.4	10057.3	10014.5	9931.8	9780.7	9489.8	9783.5	10114.3	11266.3	11882.3	9555.4
35°	10476.5	10544.9	10584.8	10567.7	10373.8	10011.7	10091.5	10371.0	11448.8	12307.1	9749.3
37.5°	10947.0	11006.8	11232.1	11309.1	11138.0	10795.8	10690.3	10875.7	11850.9	12863.2	10100.1
40°	11485.9	11565.7	11882.3	12176.0	12093.3	11734.0	11540.1	11694.1	12466.8	13701.5	10764.5
42.5°	12002.0	12144.6	12626.5	13145.5	13222.5	12820.4	12692.1	12743.4	13379.3	14907.7	11691.2
45°	12734.9	12868.9	13490.5	14194.8	14557.0	14243.3	14112.1	14103.6	14631.1	16604.4	13194.0
47.5°	13792.8	13912.5	14645.4	15341.1	15985.6	16028.4	15780.3	15865.8	16205.2	18589.0	15036.0
50°	15090.2	15372.5	15854.4	16578.7	17439.9	18135.6	18212.6	18098.6	18389.4	20887.3	17248.8
52.5°	16975.1	17083.4	17525.4	18121.4	19130.8	20311.3	21226.7	21069.8	20978.6	23077.3	19484.4
55°	18380.9	18526.3	19213.5	20031.9	21511.8	23068.7	25053.4	25107.6	23955.6	25181.7	21671.5
57.5°	17956.0	18178.4	19219.2	20864.5	24118.1	26963.9	28441.0	28478.1	26710.1	27226.3	24140.9
60°	15774.6	15880.1	17371.4	19567.1	24340.5	31184.2	33245.8	32946.4	29513.2	29513.2	26322.3
62.5°	11186.5	11351.9	12560.9	15791.7	21982.3	32649.8	39000.2	38381.4	33374.1	31700.3	27622.6
65°	7148.7	6989.1	7790.3	9968.9	16376.2	30485.5	44010.3	44047.3	37006.9	32575.7	26912.6
67°	5178.3	5115.6	5346.6	6815.1	11103.8	25626.6	44115.8	46069.1	39094.3	32022.5	24642.8
67.5°	4736.4	4784.8	4953.1	6147.9	10088.7	23319.7	43636.7	45949.3	39564.8	31688.9	23821.5
70°	3590.1	3507.4	3689.9	4348.6	6048.1	14711.0	37537.3	42142.5	38980.2	28378.3	19033.9
72.5°	2640.5	2631.9	2885.7	3555.8	4656.5	7836.0	28178.7	33790.4	31845.7	21608.8	11984.9
75°	1782.2	1862.0	2267.0	2971.3	4220.2	5081.4	19210.6	24514.5	22107.8	12270.1	4898.9
77.5°	1015.1	1020.8	1460.0	2386.7	3789.7	4089.1	11383.2	15617.7	11702.6	4080.5	1454.3
80°	439.1	481.9	724.3	1733.7	3142.4	3621.4	6527.1	8583.1	4733.5	864.0	470.5
82.5°	162.5	191.1	319.4	1066.5	2292.6	2982.7	3943.6	4097.6	1605.4	305.1	293.7
85°	0.0	5.7	116.9	499.0	1194.8	1331.7	2634.8	2429.5	710.0	145.4	191.1
87.5°	0.0	0.0	0.0	51.3	156.8	496.2	818.4	912.5	171.1	51.3	45.6
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°	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0	11312.0
2.5°	11226.4	11041.1	10576.3	10111.5	9766.4	9478.4	9045.0	8808.3	8682.9	8497.5	8508.9
5°	10944.1	10567.7	9749.3	8902.4	8218.1	7550.8	6752.4	6430.2	6159.3	6005.3	5902.6
7.5°	10524.9	9968.9	8757.0	7627.8	6575.6	5409.3	4533.9	3949.3	3555.8	3410.4	3270.7
10°	10065.8	9327.3	7750.4	6184.9	4725.0	3521.6	2780.2	2244.1	2053.1	1876.3	1893.4
12.5°	9641.0	8742.7	6826.5	4881.8	3310.6	2238.4	1745.1	1525.6	1462.8	1442.9	1442.9
15°	9293.1	8183.8	5834.2	3669.9	2269.8	1608.3	1397.2	1337.4	1314.5	1308.8	1308.8
17.5°	8922.4	7653.5	4938.8	2711.8	1651.0	1345.9	1274.6	1234.7	1226.2	1220.4	1220.4
20°	8591.6	7120.2	4089.1	2018.9	1334.5	1211.9	1166.3	1140.6	1132.1	1126.3	1129.2
22.5°	8277.9	6646.9	3290.6	1525.6	1174.8	1103.5	1057.9	1032.2	1015.1	1000.9	1003.7
25°	7998.5	6190.6	2646.2	1249.0	1057.9	995.2	949.6	912.5	875.4	858.3	855.5
27.5°	7801.7	5791.4	2061.6	1069.3	952.4	884.0	826.9	781.3	732.8	707.2	701.5
30°	7639.2	5386.5	1631.1	943.9	846.9	781.3	710.0	644.4	593.1	567.5	556.0
32.5°	7533.7	5001.6	1286.0	841.2	758.5	678.7	598.8	533.2	476.2	450.5	444.8
35°	7516.6	4679.3	1052.2	755.7	678.7	593.1	510.4	439.1	390.7	365.0	359.3
37.5°	7639.2	4431.3	881.1	687.2	613.1	519.0	427.7	362.1	319.4	299.4	296.6
40°	7967.1	4274.4	764.2	630.2	553.2	450.5	365.0	308.0	265.2	245.2	245.2
42.5°	8591.6	4280.1	687.2	576.0	493.3	385.0	310.8	256.6	219.6	202.5	196.8
45°	9566.8	4474.0	621.6	521.8	436.3	333.6	265.2	211.0	173.9	159.7	159.7
47.5°	10872.8	4859.0	564.6	467.6	385.0	285.2	225.3	171.1	139.7	125.5	125.5
50°	12580.9	5477.8	516.1	422.0	342.2	245.2	182.5	139.7	108.4	97.0	94.1
52.5°	14365.9	6242.0	459.1	382.1	293.7	208.2	148.3	108.4	82.7	74.1	71.3
55°	16336.3	6989.1	404.9	342.2	239.5	173.9	116.9	85.5	59.9	51.3	51.3
57.5°	18323.8	7721.9	339.3	285.2	188.2	128.3	91.2	62.7	39.9	31.4	31.4
60°	20006.2	7958.6	288.0	231.0	142.6	91.2	65.6	39.9	22.8	14.3	14.3
62.5°	20237.2	7160.2	242.4	176.8	102.7	62.7	34.2	22.8	8.6	5.7	5.7
65°	18982.5	5817.1	202.5	134.0	68.4	31.4	14.3	8.6	2.9	0.0	0.0
67°	17009.3	4716.4	165.4	99.8	48.5	20.0	8.6	2.9	0.0	0.0	0.0
67.5°	16504.6	4496.8	159.7	94.1	42.8	17.1	5.7	2.9	0.0	0.0	0.0
70°	12951.6	3367.6	114.1	57.0	25.7	11.4	0.0	0.0	0.0	0.0	0.0
72.5°	8049.8	1904.8	82.7	34.2	17.1	5.7	0.0	0.0	0.0	0.0	0.0
75°	3042.6	667.3	57.0	22.8	11.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	946.7	253.8	34.2	17.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	319.4	97.0	22.8	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	196.8	39.9	14.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	122.6	17.1	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	22.8	5.7	2.9	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)