

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: P651070

Luminaire Tested: **GALN-SA8C-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651070
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-SA8C-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 1050mA 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: 39495 lumens
Efficiency: N/A
Efficacy: 92.1 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

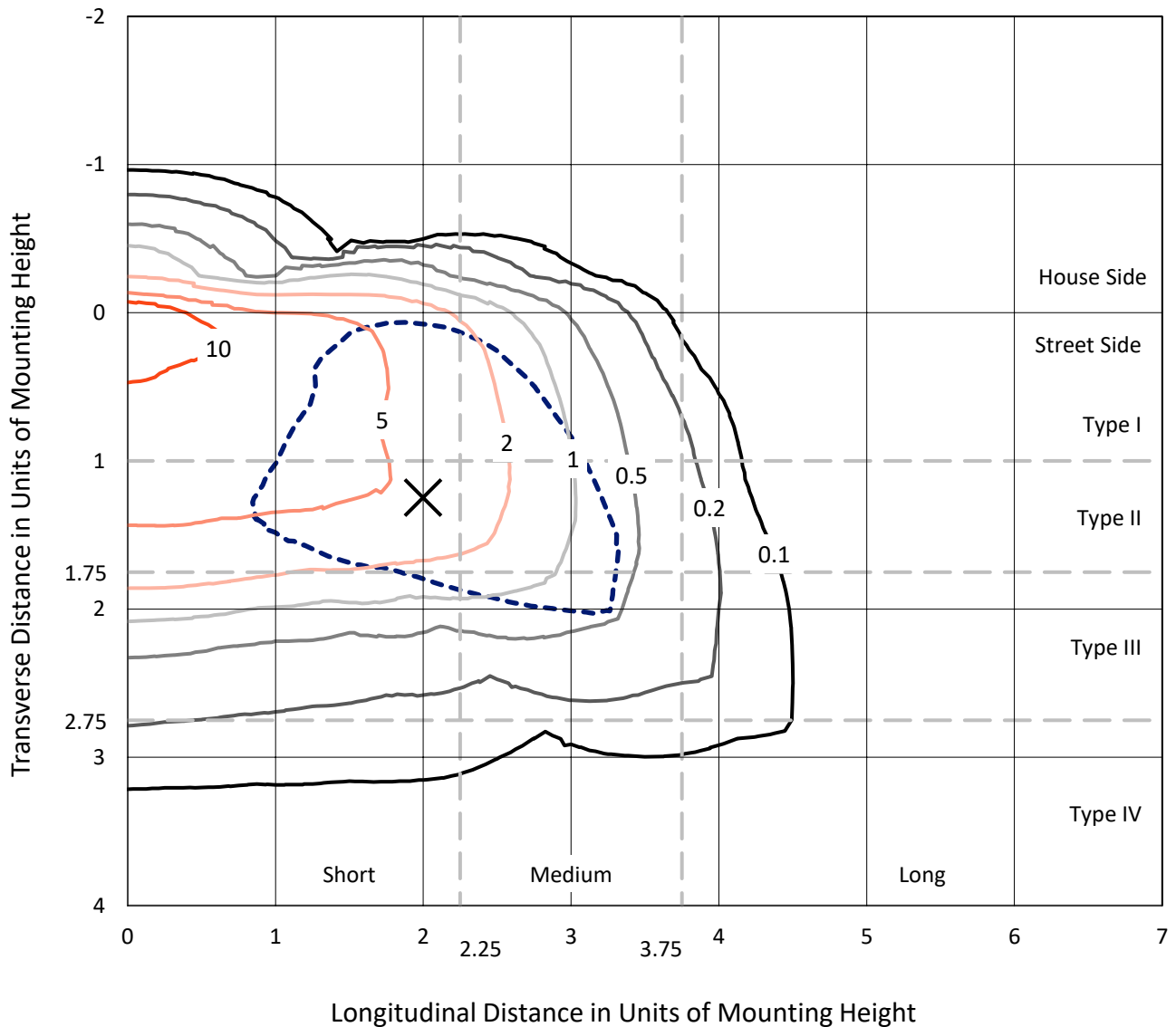
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

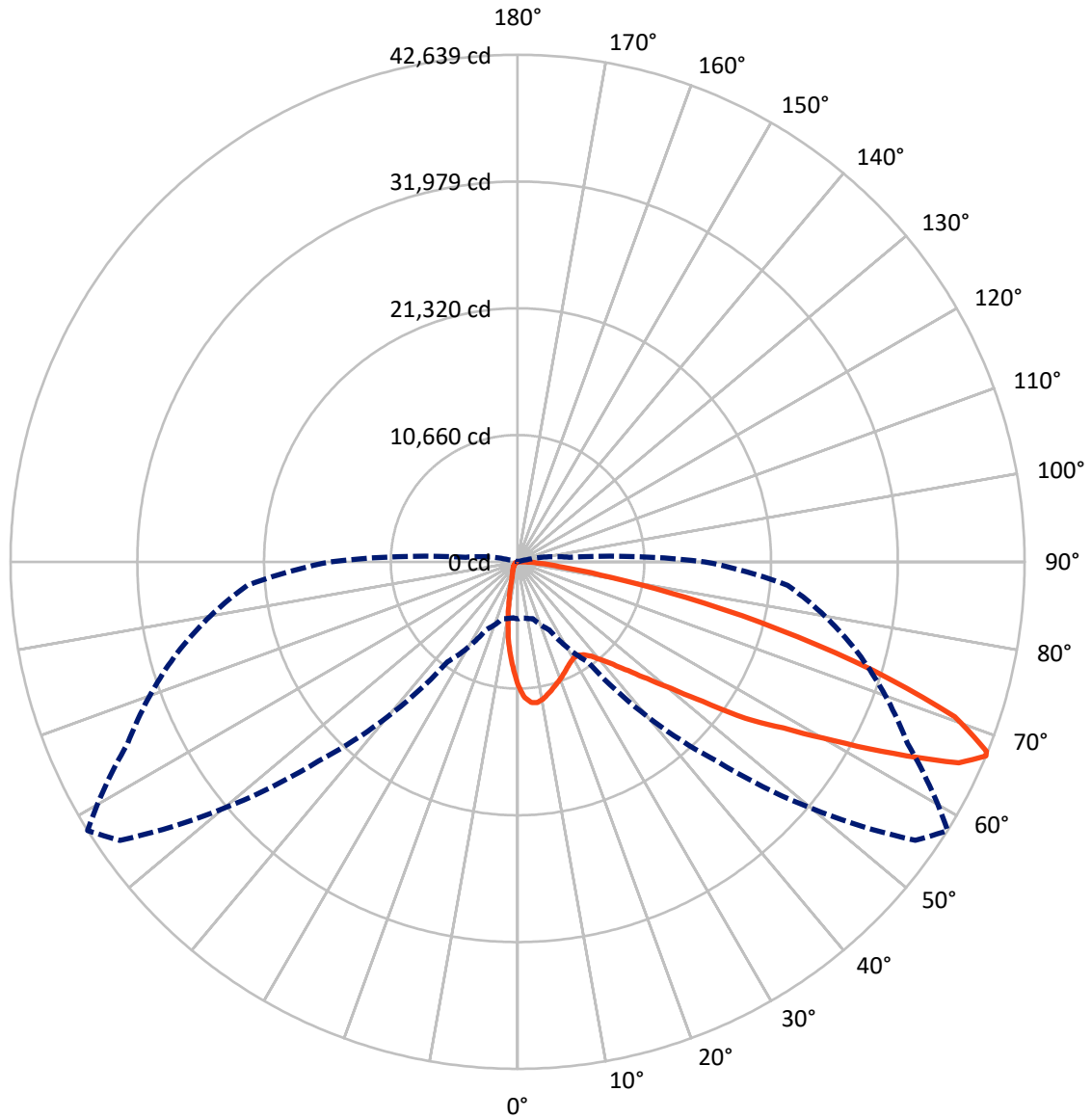
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.6 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	2850.2	0.0	2850.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	36644.8	0.0	36644.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	39495.0	0.0	39495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	849.6	2.2
10°-20°	1834.9	4.6
20°-30°	2486.5	6.3
30°-40°	3448.6	8.7
40°-50°	5500.1	13.9
50°-60°	9507.3	24.1
60°-70°	10860.3	27.5
70°-80°	4527.8	11.5
80°-90°	480.1	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°	39495.0	100.0
0°-180°	39495.0	100.0

Coefficient of Utilization



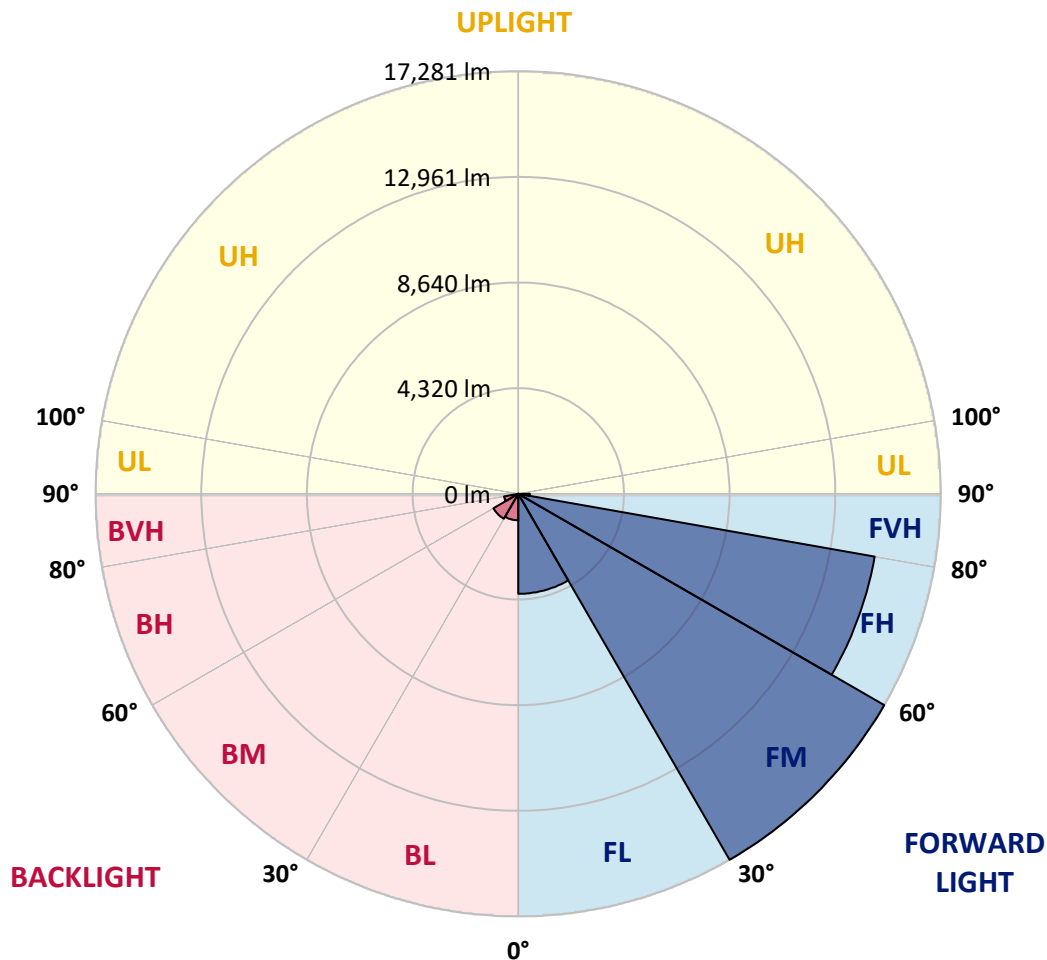
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4088.7	10.4			
FM (30°-60°)	17280.7	43.8			
FH (60°-80°)	14798.8	37.5			G5
FVH (80°-90°)	476.6	1.2			G3/500
BL (0°-30°)	1082.3	2.7	B3/2500		
BM (30°-60°)	1175.2	3.0	B2/2500		
BH (60°-80°)	589.2	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.5	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°	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8
2.5°	12150.9	12169.4	12100.8	12045.4	11902.8	11749.8	11546.6	11438.4	11253.6	10934.3	10580.6
5°	12436.0	12459.8	12449.2	12436.0	12380.5	12232.8	11974.2	11879.1	11607.3	11087.3	10448.7
7.5°	11802.6	11889.6	11900.2	12003.2	12100.8	12114.0	12016.4	11945.1	11694.4	11084.7	10213.8
10°	10963.3	11021.4	11105.8	11224.6	11459.5	11654.7	11749.8	11739.3	11594.1	11002.9	9939.3
12.5°	10116.1	10147.8	10277.1	10480.3	10768.0	11100.5	11353.9	11404.0	11406.7	10905.2	9709.7
15°	9387.7	9374.5	9474.8	9709.7	10113.4	10530.5	10984.4	11063.6	11190.3	10810.2	9495.9
17.5°	8764.8	8833.4	8849.3	9107.9	9480.1	10021.1	10599.1	10739.0	10992.4	10728.4	9319.0
20°	8379.5	8416.5	8450.8	8595.9	8931.1	9501.2	10237.5	10430.2	10807.6	10654.5	9121.1
22.5°	8266.0	8289.8	8260.7	8305.6	8543.1	9049.8	9844.2	10100.2	10630.7	10585.9	8960.2
25°	8353.1	8376.9	8308.2	8255.5	8337.3	8683.0	9464.2	9775.7	10488.3	10572.7	8838.7
27.5°	8564.2	8609.1	8514.1	8419.1	8371.6	8485.1	9166.0	9527.6	10390.6	10636.0	8783.3
30°	8894.2	8920.6	8849.3	8733.2	8625.0	8511.5	9010.3	9356.0	10364.2	10783.8	8778.0
32.5°	9253.1	9308.5	9268.9	9192.4	9052.5	8783.3	9055.1	9361.3	10427.6	10997.6	8844.0
35°	9696.5	9759.8	9796.8	9780.9	9601.4	9266.3	9340.2	9598.8	10596.4	11390.8	9023.5
37.5°	10131.9	10187.4	10395.9	10467.2	10308.8	9992.1	9894.4	10066.0	10968.6	11905.5	9348.1
40°	10630.7	10704.7	10997.6	11269.5	11193.0	10860.3	10681.0	10823.4	11538.7	12681.4	9963.1
42.5°	11108.4	11240.4	11686.5	12166.8	12238.1	11865.9	11747.2	11794.7	12383.2	13797.9	10820.8
45°	11786.8	11910.7	12486.2	13138.0	13473.2	13182.9	13061.5	13053.6	13541.8	15368.2	12211.7
47.5°	12765.9	12876.7	13555.0	14199.0	14795.5	14835.1	14605.4	14684.6	14998.6	17205.1	13916.6
50°	13966.7	14228.0	14674.0	15344.4	16141.5	16785.4	16856.7	16751.1	17020.3	19332.2	15964.6
52.5°	15711.2	15811.6	16220.6	16772.2	17706.5	18799.1	19646.3	19501.2	19416.8	21359.2	18033.7
55°	17012.4	17147.0	17783.0	18540.5	19910.3	21351.2	23188.1	23238.3	22172.0	23306.9	20058.0
57.5°	16619.2	16825.0	17788.3	19311.1	22322.5	24956.4	26323.6	26357.9	24721.5	25199.2	22343.6
60°	14600.2	14697.8	16078.1	18110.3	22528.4	28862.4	30770.6	30493.5	27315.9	27315.9	24362.6
62.5°	10353.6	10506.7	11625.7	14616.0	20345.7	30219.1	36096.6	35523.8	30889.4	29340.1	25566.1
65°	6616.5	6468.7	7210.3	9226.7	15157.0	28215.9	40733.7	40768.0	34251.7	30150.4	24908.9
67°	4792.9	4734.7	4948.5	6307.8	10277.1	23718.6	40831.3	42639.2	36183.7	29638.4	22808.1
67.5°	4383.7	4428.6	4584.3	5690.1	9337.5	21583.5	40387.9	42528.4	36619.2	29329.6	22048.0
70°	3322.8	3246.3	3415.1	4024.8	5597.8	13615.7	34742.6	39005.0	36078.1	26265.5	17616.8
72.5°	2443.9	2436.0	2670.8	3291.1	4309.9	7252.5	26080.8	31274.7	29474.8	20000.0	11092.6
75°	1649.5	1723.4	2098.2	2750.1	3906.0	4703.1	17780.4	22689.3	20461.9	11356.5	4534.2
77.5°	939.6	944.9	1351.3	2209.1	3507.6	3784.7	10535.7	14455.0	10831.3	3776.7	1346.0
80°	406.5	446.1	670.4	1604.6	2908.4	3351.8	6041.2	7944.0	4381.1	799.7	435.5
82.5°	150.5	176.9	295.6	987.1	2121.9	2760.6	3650.0	3792.6	1485.9	282.4	271.8
85°	0.0	5.3	108.2	461.9	1105.8	1232.5	2438.6	2248.6	657.2	134.6	176.9
87.5°	0.0	0.0	0.0	47.5	145.2	459.2	757.5	844.5	158.4	47.5	42.2
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°	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8	10469.8
2.5°	10390.6	10219.1	9788.8	9358.6	9039.3	8772.7	8371.6	8152.6	8036.4	7864.9	7875.5
5°	10129.3	9780.9	9023.5	8239.6	7606.3	6988.6	6249.6	5951.4	5700.7	5558.2	5463.2
7.5°	9741.4	9226.7	8105.1	7059.9	6086.1	5006.6	4196.3	3655.3	3291.1	3156.5	3027.2
10°	9316.4	8632.9	7173.4	5724.4	4373.2	3259.5	2573.2	2077.1	1900.2	1736.6	1752.5
12.5°	8923.2	8091.8	6318.3	4518.4	3064.1	2071.8	1615.2	1412.0	1353.9	1335.4	1335.4
15°	8601.2	7574.6	5399.8	3396.6	2100.8	1488.5	1293.2	1237.8	1216.7	1211.4	1211.4
17.5°	8258.1	7083.7	4571.1	2509.9	1528.1	1245.7	1179.8	1142.8	1134.8	1129.5	1129.5
20°	7952.0	6590.2	3784.7	1868.5	1235.2	1121.6	1079.4	1055.7	1047.8	1042.5	1045.1
22.5°	7661.7	6152.0	3045.7	1412.0	1087.3	1021.4	979.2	955.4	939.6	926.4	929.0
25°	7403.0	5729.7	2449.2	1156.0	979.2	921.1	878.8	844.5	810.2	794.4	791.8
27.5°	7220.9	5360.3	1908.1	989.7	881.5	818.1	765.4	723.2	678.3	654.6	649.3
30°	7070.5	4985.4	1509.6	873.5	783.8	723.2	657.2	596.4	548.9	525.2	514.6
32.5°	6972.8	4629.2	1190.3	778.6	702.1	628.1	554.2	493.5	440.8	417.0	411.8
35°	6957.0	4331.0	973.9	699.4	628.1	548.9	472.4	406.5	361.5	337.8	332.5
37.5°	7070.5	4101.3	815.5	636.0	567.4	480.4	395.9	335.1	295.6	277.1	274.5
40°	7374.0	3956.1	707.3	583.2	512.0	417.0	337.8	285.0	245.5	227.0	227.0
42.5°	7952.0	3961.4	636.0	533.1	456.6	356.3	287.7	237.5	203.2	187.4	182.1
45°	8854.6	4140.9	575.3	483.0	403.8	308.8	245.5	195.3	161.0	147.8	147.8
47.5°	10063.3	4497.2	522.6	432.9	356.3	263.9	208.5	158.4	129.3	116.1	116.1
50°	11644.2	5070.0	477.7	390.6	316.7	227.0	168.9	129.3	100.3	89.7	87.1
52.5°	13296.4	5777.2	424.9	353.6	271.8	192.7	137.3	100.3	76.5	68.6	66.0
55°	15120.1	6468.7	374.7	316.7	221.7	161.0	108.2	79.1	55.4	47.5	47.5
57.5°	16959.6	7147.0	314.0	263.9	174.2	118.7	84.4	58.0	36.9	29.0	29.0
60°	18516.7	7366.1	266.6	213.8	132.0	84.4	60.7	36.9	21.1	13.2	13.2
62.5°	18730.5	6627.1	224.3	163.7	95.0	58.0	31.7	21.1	7.9	5.3	5.3
65°	17569.2	5384.0	187.4	124.0	63.3	29.0	13.2	7.9	2.6	0.0	0.0
67°	15742.9	4365.3	153.1	92.3	44.8	18.5	7.9	2.6	0.0	0.0	0.0
67.5°	15275.8	4162.0	147.8	87.1	39.6	15.8	5.3	2.6	0.0	0.0	0.0
70°	11987.4	3116.9	105.5	52.8	23.7	10.6	0.0	0.0	0.0	0.0	0.0
72.5°	7450.5	1763.0	76.5	31.7	15.8	5.3	0.0	0.0	0.0	0.0	0.0
75°	2816.0	617.5	52.8	21.1	10.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	876.2	234.9	31.7	15.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	295.6	89.7	21.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	182.1	36.9	13.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	113.5	15.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.1	5.3	2.6	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)