

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: P459522

Luminaire Tested: **GALN-SA9C-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459522
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46485 lumens
Efficiency: N/A
Efficacy: 96.6 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): 481
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

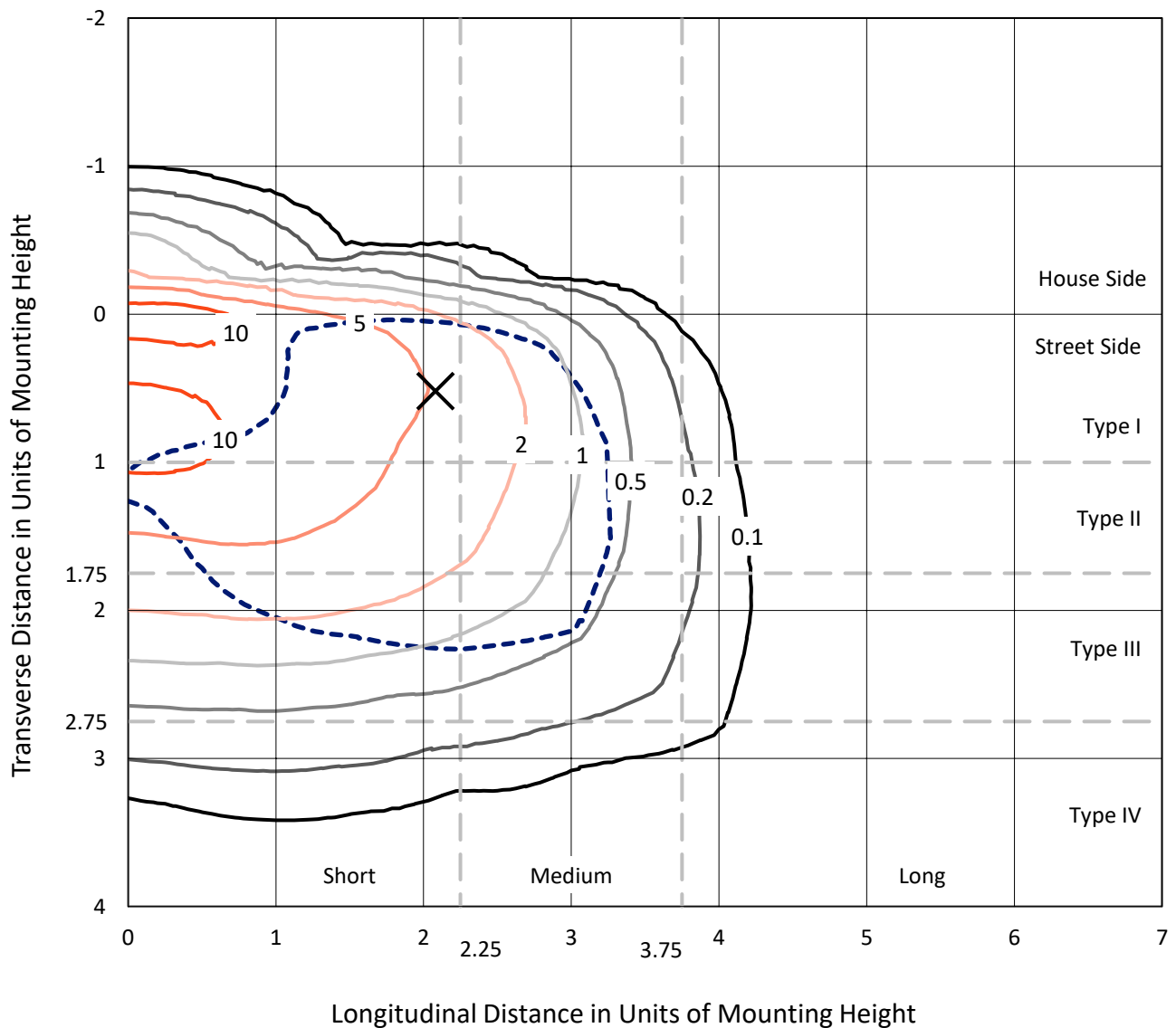




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Iso-Footcandle Lines of Horizontal Illumination

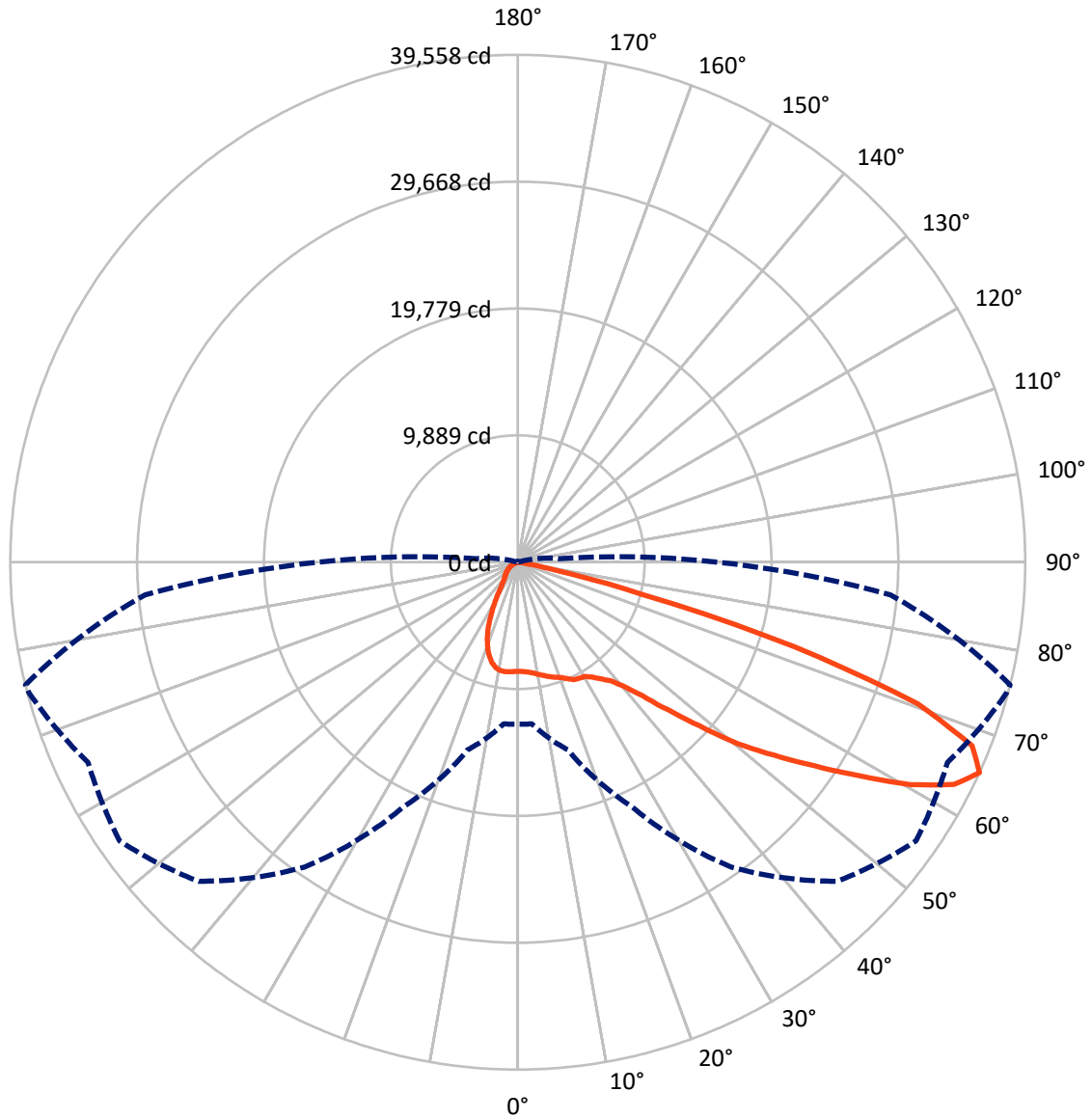
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3357.2	0.0	3357.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	43127.9	0.0	43127.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	46485.0	0.0	46485.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	700.5	1.5
10°-20°	1559.7	3.4
20°-30°	2513.3	5.4
30°-40°	4370.1	9.4
40°-50°	7221.3	15.5
50°-60°	11155.3	24.0
60°-70°	13622.3	29.3
70°-80°	5170.0	11.1
80°-90°	172.5	0.4
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°	46485.0	100.0
0°-180°	46485.0	100.0



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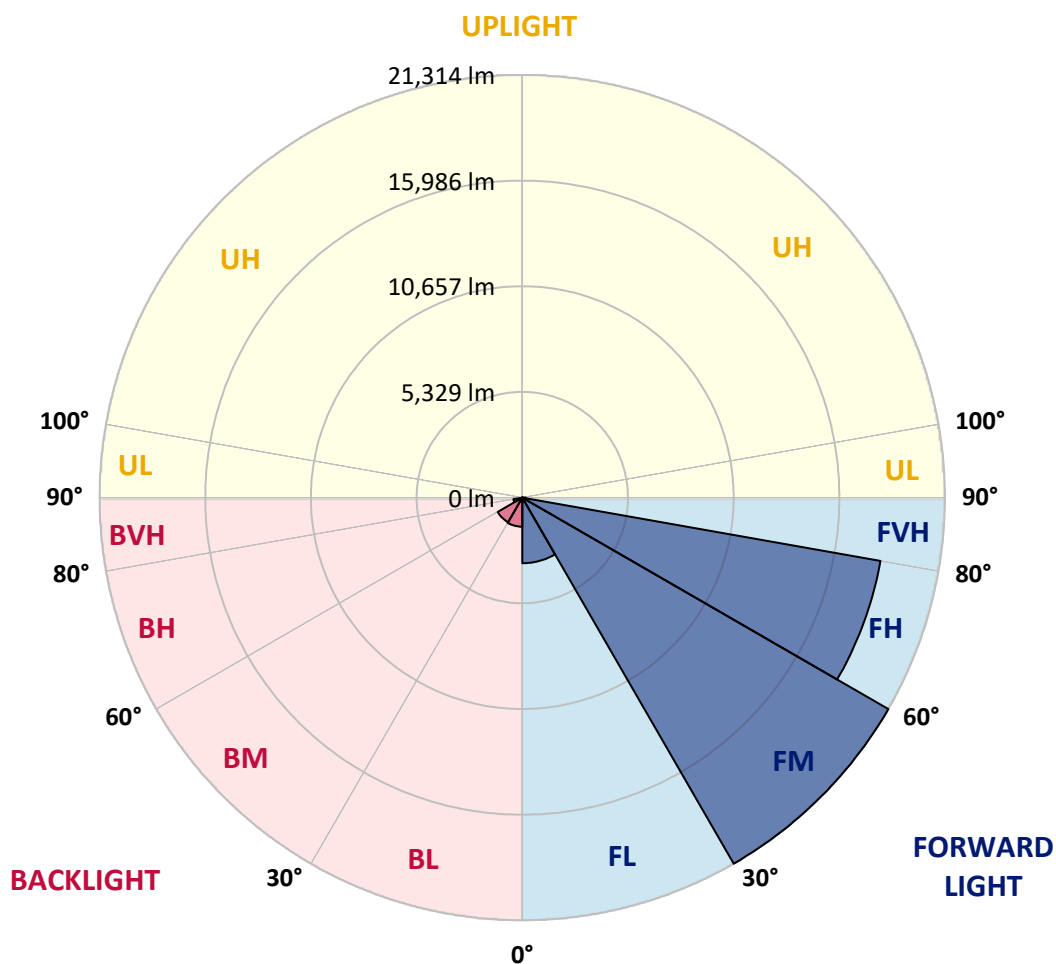
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3306.9	7.1			
FM	(30°-60°)	21314.1	45.9			
FH	(60°-80°)	18336.8	39.4			G5
FVH	(80°-90°)	170.2	0.4			G2/225
BL	(0°-30°)	1466.7	3.2	B3/2500		
BM	(30°-60°)	1432.6	3.1	B2/2500		
BH	(60°-80°)	455.5	1.0	B1/500		G1/500
BVH	(80°-90°)	2.4	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°	65°	75°	76°	85°
0°	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6
2.5°	8126.2	8129.4	8149.1	8198.4	8273.9	8336.2	8388.7	8474.1	8533.1	8539.7	8559.4
5°	7564.9	7525.6	7564.9	7692.9	7807.8	7981.8	8195.1	8408.4	8598.8	8611.9	8703.8
7.5°	6934.8	6967.6	7030.0	7161.3	7377.9	7643.7	7952.2	8332.9	8693.9	8726.8	8907.3
10°	6294.8	6367.0	6468.8	6669.0	6970.9	7315.5	7735.6	8280.4	8844.9	8890.9	9202.7
12.5°	5704.1	5736.9	5861.6	6130.7	6504.9	6990.6	7571.5	8250.9	9012.3	9068.1	9517.7
15°	5251.2	5293.8	5402.1	5645.0	6061.8	6685.4	7436.9	8241.0	9176.4	9255.2	9832.8
17.5°	5165.8	5192.1	5238.0	5402.1	5766.4	6442.5	7315.5	8237.8	9333.9	9429.1	10124.9
20°	5517.0	5494.0	5448.1	5431.7	5631.9	6255.4	7226.9	8264.0	9484.9	9593.2	10433.4
22.5°	6396.6	6426.1	6157.0	5838.6	5773.0	6225.9	7213.8	8388.7	9724.5	9852.5	10778.0
25°	8264.0	8037.5	7617.5	6856.0	6281.7	6406.4	7361.5	8684.1	10003.5	10144.6	11089.8
27.5°	10328.4	10259.4	9606.3	8352.6	7282.7	6787.1	7624.0	8910.6	10095.3	10239.8	11267.0
30°	12356.6	12438.7	11690.4	10305.4	8736.6	7492.7	7870.2	8995.9	10177.4	10328.4	11493.5
32.5°	14237.2	14335.7	13679.3	12307.4	10449.8	8713.6	8293.5	9327.4	10522.0	10676.3	11870.9
35°	15717.4	15730.5	15234.9	14142.0	12320.5	10197.1	9209.2	9908.3	10988.0	11168.6	12271.3
37.5°	17076.1	17056.4	16475.5	15533.6	13879.5	11670.7	10361.2	10577.8	11519.7	11706.8	12848.9
40°	18083.7	18096.8	17909.7	17023.6	15333.4	13032.7	11273.6	11204.7	12412.4	12704.5	13689.1
42.5°	18756.5	18877.9	18969.8	18520.2	17161.4	14709.8	12675.0	12547.0	13961.5	14204.4	14877.2
45°	19301.3	19517.9	19977.4	19954.4	18917.3	16767.6	14598.2	14335.7	16157.1	16416.4	16390.2
47.5°	19698.4	19918.3	20679.7	21139.2	20568.1	18763.0	17017.0	16790.6	18779.4	19061.7	18060.7
50°	19901.9	20164.4	21135.9	22025.3	21857.9	20686.3	19773.9	19787.0	21946.5	22219.0	19997.1
52.5°	19426.0	19767.3	21378.8	22980.4	23305.3	22527.5	22356.8	22790.0	24765.8	24998.8	21746.3
55°	17906.4	18336.4	21047.3	23794.3	24982.4	24700.1	25290.9	25950.6	27847.5	27998.5	23541.6
57.5°	16944.8	17401.0	20069.3	24486.8	26997.5	27430.7	28366.1	28848.5	31027.8	31411.8	25602.7
60°	16134.2	16491.9	19265.2	24634.5	29045.5	30771.8	31680.9	32179.7	34953.0	35202.4	27870.5
62.5°	14785.3	15195.5	17906.4	23603.9	30076.0	33446.6	35330.4	35107.3	37988.8	38162.8	29262.1
65°	12615.9	12652.0	15149.6	21014.5	29012.6	35182.7	37893.7	36958.3	39439.5	39557.6	29153.8
67.5°	9416.0	9763.9	11654.3	16518.2	24506.5	33699.3	38724.0	37007.5	38523.8	38195.6	26840.0
70°	6065.1	6330.9	7899.7	11454.1	17670.1	28123.2	35970.4	34470.6	33810.9	33082.3	21969.5
72.5°	2799.5	3140.8	4693.2	6544.3	10479.3	20033.2	29199.7	28005.1	24335.8	22537.3	13964.8
75°	1220.9	1306.2	2317.1	3452.6	4913.1	10594.2	19252.0	17384.6	10991.3	10039.6	5589.2
77.5°	745.0	800.8	1214.3	1851.0	1929.8	4036.8	10371.0	7584.6	3396.8	2996.4	1516.3
80°	505.4	567.8	882.9	968.2	659.7	1125.7	3892.4	2025.0	685.9	656.4	324.9
82.5°	246.1	311.8	653.1	541.5	285.5	361.0	1132.3	433.2	200.2	187.1	114.9
85°	36.1	62.4	367.6	354.5	128.0	85.3	200.2	108.3	68.9	65.6	52.5
87.5°	0.0	0.0	124.7	55.8	13.1	13.1	23.0	23.0	26.3	23.0	26.3
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°	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6	8503.6
2.5°	8569.2	8585.6	8523.3	8434.7	8339.5	8244.3	8109.8	7988.3	7916.1	7958.8	7853.8
5°	8723.5	8710.4	8546.3	8277.1	7919.4	7489.5	7062.8	6698.5	6580.4	6403.1	6383.4
7.5°	8936.8	8900.7	8552.8	7935.8	7128.4	6321.1	5533.4	5011.6	4712.9	4460.2	4466.8
10°	9235.5	9130.4	8477.3	7335.2	6006.0	4788.4	3784.1	3094.9	2796.2	2701.1	2625.6
12.5°	9544.0	9340.5	8267.3	6524.6	4676.8	3272.1	2300.7	1880.6	1696.8	1637.7	1631.1
15°	9819.7	9498.0	7899.7	5549.8	3400.1	2090.6	1568.8	1430.9	1408.0	1411.2	1408.0
17.5°	10092.1	9622.7	7391.0	4516.0	2310.5	1499.9	1348.9	1316.1	1325.9	1339.0	1335.8
20°	10318.5	9649.0	6741.2	3446.1	1634.4	1316.1	1266.8	1260.3	1270.1	1280.0	1280.0
22.5°	10564.7	9668.7	5969.9	2386.0	1335.8	1224.2	1197.9	1197.9	1211.0	1224.2	1227.5
25°	10748.5	9560.4	5047.7	1713.2	1178.2	1135.6	1122.4	1125.7	1138.8	1145.4	1142.1
27.5°	10778.0	9255.2	4069.6	1312.8	1069.9	1027.3	1014.1	1027.3	1010.8	1020.7	1014.1
30°	10804.3	8867.9	3078.5	1106.0	971.5	905.8	886.1	866.4	853.3	836.9	833.6
32.5°	10886.3	8411.7	2248.2	994.4	879.6	807.4	761.4	705.6	663.0	649.8	646.5
35°	10922.4	7863.6	1650.8	905.8	797.5	718.8	636.7	557.9	495.6	472.6	489.0
37.5°	11060.2	7331.9	1280.0	840.2	725.3	626.9	521.8	423.4	364.3	351.2	357.7
40°	11342.5	6754.3	1073.2	784.4	663.0	541.5	413.5	318.4	279.0	265.8	262.6
42.5°	11795.4	6180.0	955.1	731.9	600.6	456.2	324.9	249.4	216.6	206.8	206.8
45°	12346.8	5628.6	873.0	676.1	535.0	367.6	256.0	200.2	180.5	173.9	173.9
47.5°	13072.1	5146.1	804.1	620.3	462.8	292.1	206.8	173.9	160.8	164.1	167.4
50°	13807.3	4788.4	728.6	557.9	380.7	239.6	177.2	154.3	151.0	154.3	154.3
52.5°	14361.9	4578.4	626.9	472.6	298.7	200.2	157.5	144.4	141.1	134.6	134.6
55°	15110.2	4532.4	498.9	384.0	236.3	167.4	141.1	131.3	121.4	114.9	111.6
57.5°	16071.8	4584.9	384.0	298.7	183.8	137.8	124.7	108.3	95.2	82.0	82.0
60°	16669.1	4466.8	298.7	229.7	134.6	111.6	95.2	78.8	62.4	52.5	49.2
62.5°	16478.8	3967.9	236.3	170.7	95.2	82.0	62.4	52.5	36.1	26.3	23.0
65°	15497.5	3203.2	190.4	118.2	68.9	49.2	32.8	32.8	16.4	3.3	0.0
67.5°	13564.4	2372.9	151.0	78.8	39.4	23.0	16.4	9.8	0.0	0.0	0.0
70°	11040.6	1713.2	118.2	49.2	23.0	16.4	6.6	3.3	0.0	0.0	0.0
72.5°	7010.3	981.3	91.9	29.5	16.4	6.6	0.0	0.0	0.0	0.0	0.0
75°	2710.9	384.0	62.4	19.7	6.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	768.0	180.5	36.1	9.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	200.2	78.8	19.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	95.2	32.8	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.8	13.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.3	3.3	0.0	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)