

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: P457218

Luminaire Tested: **GALN-SA8C-740-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457218
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-SA8C-740-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 46698 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

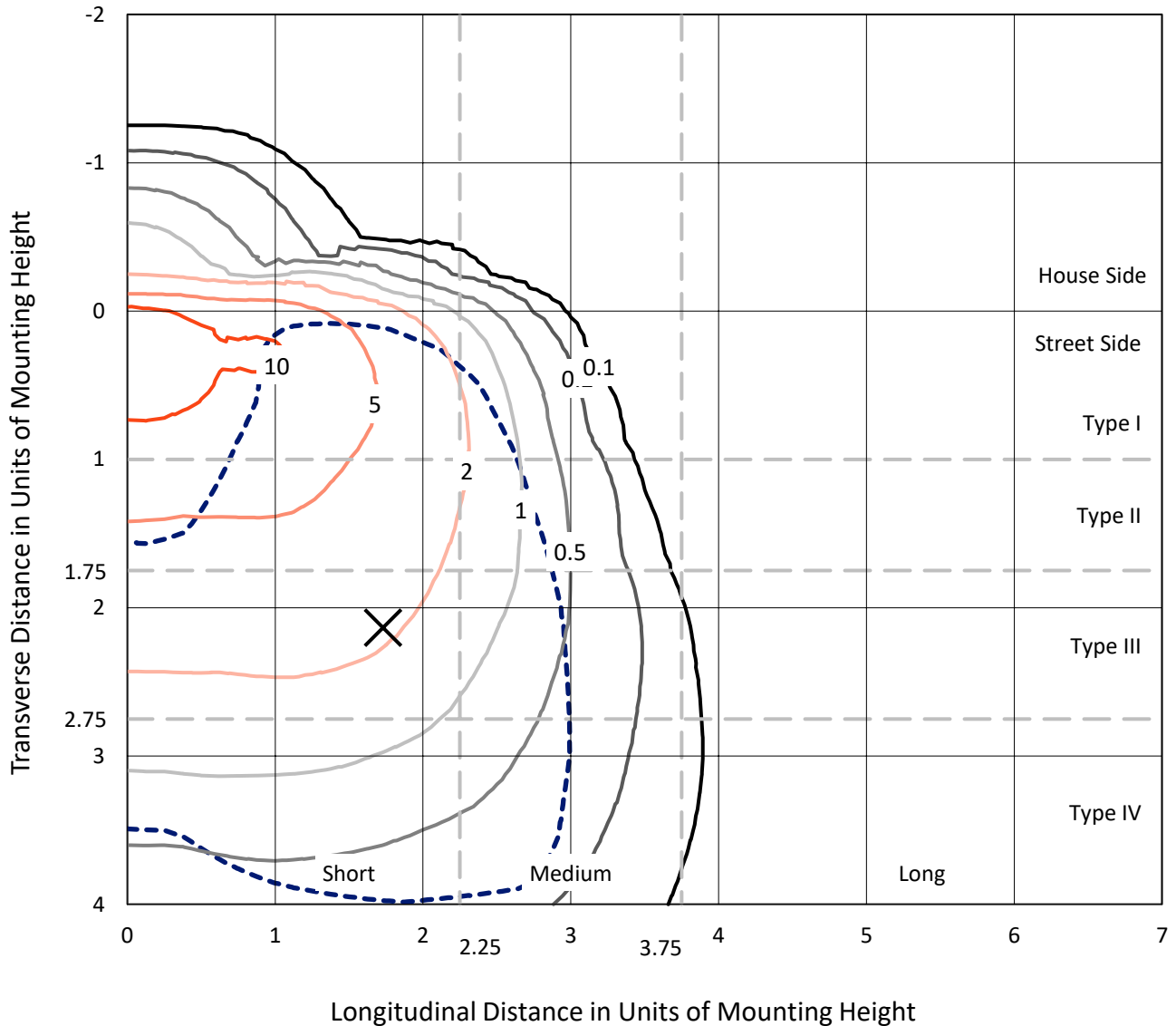
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

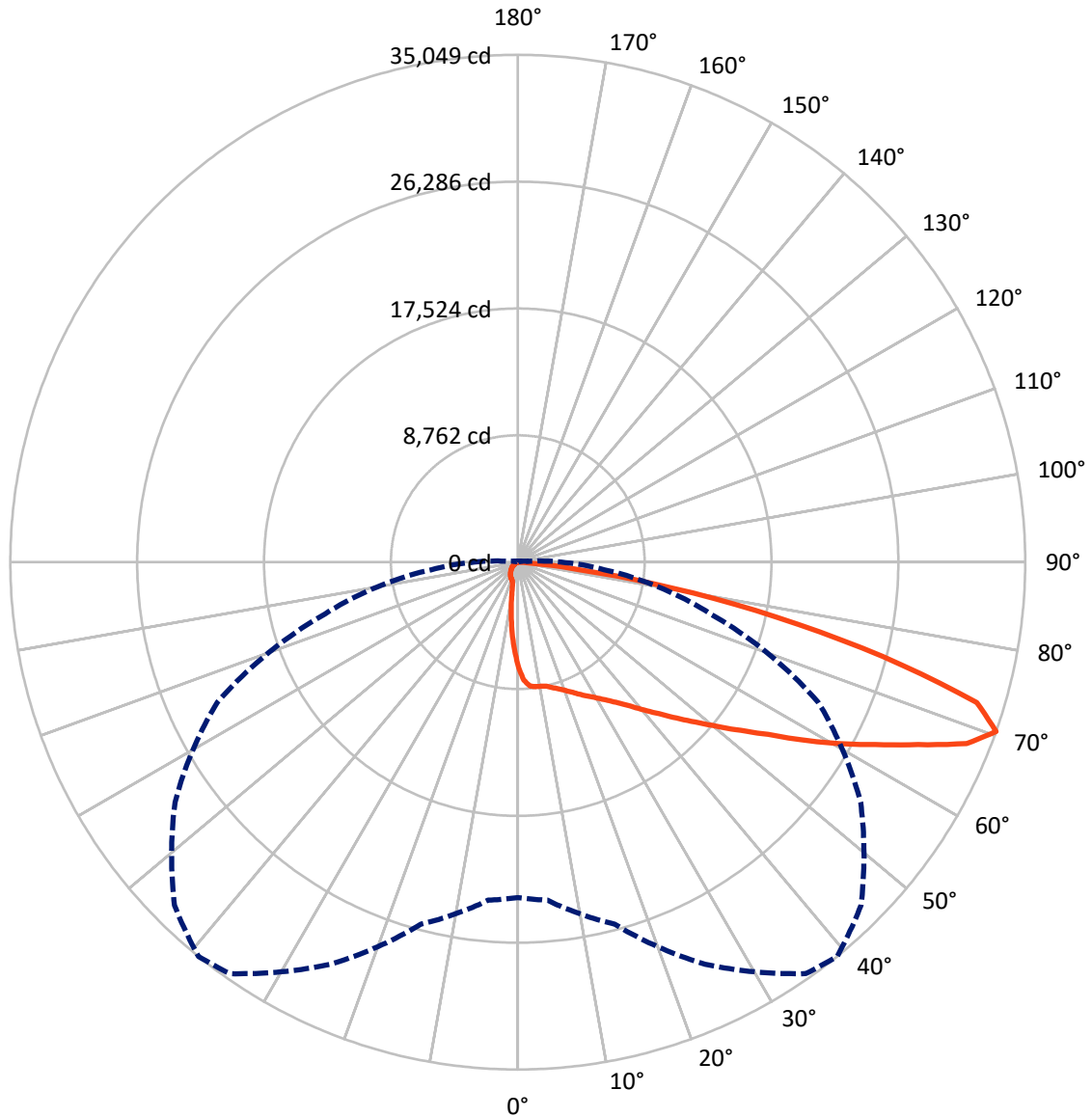
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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	3044.9	0.0	3044.9
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	43653.1	0.0	43653.1
	% Fixture	93.5	0.0	93.5
Total	Lumens	46698.0	0.0	46698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	621.5	1.3
10°-20°	1615.1	3.5
20°-30°	2705.7	5.8
30°-40°	4196.2	9.0
40°-50°	6649.7	14.2
50°-60°	9747.5	20.9
60°-70°	12493.9	26.8
70°-80°	7850.7	16.8
80°-90°	817.9	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°	46698.0	100.0
0°-180°	46698.0	100.0

Coefficient of Utilization



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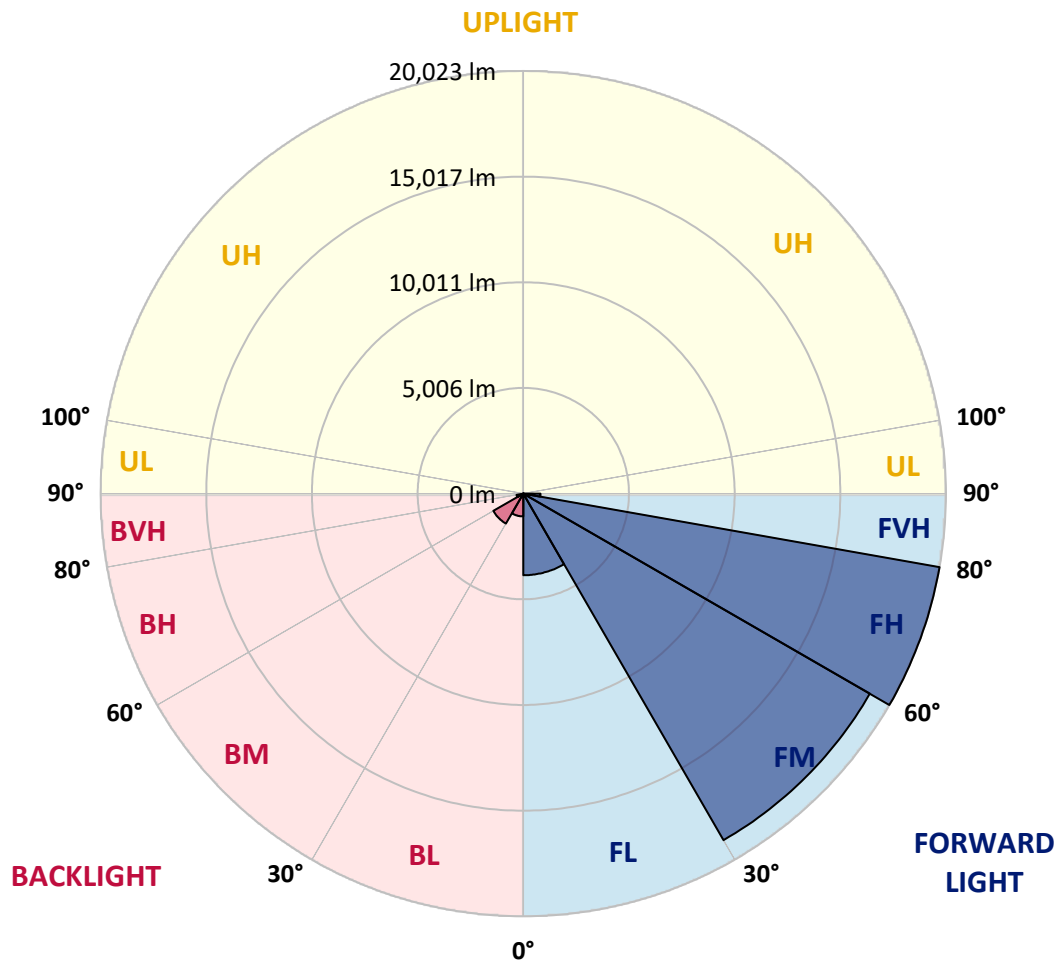
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3864.0	8.3			
FM	(30°-60°)	18954.6	40.6			
FH	(60°-80°)	20022.6	42.9			G5
FVH	(80°-90°)	811.8	1.7			G5
BL	(0°-30°)	1078.2	2.3	B3/2500		
BM	(30°-60°)	1638.7	3.5	B2/2500		
BH	(60°-80°)	322.0	0.7	B1/500		G1/500
BVH	(80°-90°)	6.0	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5
2.5°	8419.3	8391.1	8353.4	8309.5	8184.0	8162.0	8086.7	7926.6	7735.2	7578.3	7361.8
5°	8817.8	8833.5	8805.3	8726.8	8635.8	8582.5	8488.4	8240.4	7992.5	7675.6	7321.0
7.5°	8908.8	8940.2	8905.7	8830.4	8742.5	8686.0	8610.7	8397.3	8108.7	7747.8	7261.4
10°	8899.4	8937.1	8915.1	8846.1	8773.9	8720.6	8639.0	8469.5	8237.3	7857.6	7280.2
12.5°	8883.7	8934.0	8930.8	8896.3	8836.7	8795.9	8745.7	8595.0	8378.5	8017.6	7383.8
15°	8839.8	8902.6	8959.1	8987.3	8990.4	8990.4	8927.7	8767.6	8560.5	8227.9	7518.7
17.5°	8858.6	8930.8	9072.0	9153.6	9210.1	9203.8	9137.9	8965.3	8736.3	8444.4	7659.9
20°	8974.7	9072.0	9269.7	9432.9	9489.4	9470.6	9382.7	9181.9	8921.4	8629.6	7798.0
22.5°	9260.3	9348.2	9596.1	9787.5	9828.3	9778.1	9652.6	9379.6	9144.2	8830.4	7964.3
25°	9687.1	9790.6	10019.7	10164.1	10164.1	10135.8	9960.1	9640.0	9395.2	9109.7	8180.8
27.5°	10204.9	10292.7	10518.7	10647.3	10572.0	10490.4	10314.7	9928.7	9693.4	9461.1	8441.3
30°	10728.9	10785.4	11023.9	11080.4	11001.9	10898.4	10710.1	10324.1	10117.0	9938.1	8817.8
32.5°	11224.7	11347.1	11544.8	11532.2	11425.5	11375.3	11202.7	10791.7	10675.6	10656.7	9345.0
35°	11720.5	11814.7	11990.4	12034.3	11940.2	11930.8	11805.2	11500.9	11504.0	11626.4	10167.2
37.5°	12147.3	12232.0	12439.1	12536.4	12555.2	12602.3	12552.1	12351.3	12636.8	12972.6	11256.1
40°	12505.0	12624.3	12887.9	13057.3	13251.9	13424.5	13433.9	13477.8	14052.1	14629.5	12677.6
42.5°	12784.3	12950.6	13333.5	13647.3	14092.9	14312.5	14488.3	14729.9	15696.4	16559.3	14353.3
45°	13148.3	13339.7	13816.7	14309.4	15006.0	15366.9	15611.7	16258.1	17629.4	18806.2	16073.0
47.5°	13750.8	13851.2	14337.6	15056.2	15972.5	16487.2	16964.2	17943.2	19703.6	20758.0	17503.9
50°	14525.9	14591.8	14959.0	15956.8	17143.0	17820.8	18690.1	19841.7	21856.3	22377.2	18313.5
52.5°	15382.6	15404.6	15680.7	16948.5	18454.7	19308.3	20281.0	21702.6	23610.5	23532.0	18850.1
55°	16377.3	16346.0	16581.3	18024.8	20008.0	20984.0	22116.8	23607.3	25132.4	24351.1	19157.6
57.5°	17516.4	17431.7	17660.8	19452.6	21997.5	23164.9	24316.5	25251.7	26312.3	25038.3	19305.1
60°	18708.9	18539.4	18812.4	21056.1	24341.6	25449.4	26406.5	26657.5	27555.0	25584.3	19050.9
62.5°	19659.7	19662.9	20171.2	22763.2	26751.6	27721.3	28229.7	28455.6	28625.0	25465.1	17714.1
65°	21144.0	21194.2	22007.0	25132.4	29541.3	30382.3	30730.7	29996.4	28672.1	23983.9	15705.8
67.5°	22675.4	22835.4	24322.8	28396.0	32764.1	33441.9	32993.2	30294.5	27391.8	20604.3	11908.8
70°	23174.3	23437.9	25888.7	30642.8	34697.1	35048.6	33529.8	28904.3	22898.2	13775.9	5993.6
72.5°	21235.0	21661.8	24988.1	29823.8	33463.9	33159.5	29999.5	24241.2	14557.3	5231.1	1829.5
75°	14974.6	15162.9	20767.4	24740.2	26914.8	26051.9	22819.7	15627.4	5987.3	1468.6	627.6
77.5°	7732.1	7641.1	12351.3	16415.0	19195.3	18301.0	14943.3	8089.8	2268.8	611.9	389.1
80°	3997.8	4063.7	5344.1	8601.3	11717.4	10782.2	7967.4	3749.9	1208.1	338.9	298.1
82.5°	2240.5	2102.5	3072.1	3756.2	5479.0	4296.0	3056.4	2654.8	527.2	204.0	282.4
85°	407.9	426.8	1685.1	2030.3	1901.6	1208.1	985.3	1773.0	153.8	113.0	197.7
87.5°	6.3	6.3	326.4	583.7	370.3	169.5	310.7	254.2	31.4	43.9	34.5
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°	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5	7286.5
2.5°	7252.0	7132.7	6909.9	6690.3	6411.0	6181.9	6028.1	5868.1	5704.9	5717.5	5755.1
5°	7126.5	6919.3	6480.0	6015.6	5570.0	5168.3	4772.9	4418.3	4274.0	4142.2	4148.5
7.5°	7000.9	6709.1	6065.8	5337.8	4663.1	3979.0	3483.2	3075.3	2858.7	2695.6	2648.5
10°	6944.4	6558.5	5686.1	4685.1	3728.0	2981.1	2344.1	2011.5	1754.2	1672.6	1694.5
12.5°	6969.5	6483.2	5344.1	4095.1	2956.0	2077.4	1631.8	1462.3	1405.8	1396.4	1390.1
15°	7016.6	6429.8	5008.3	3442.4	2171.5	1543.9	1371.3	1339.9	1333.7	1327.4	1330.5
17.5°	7079.4	6382.7	4650.6	2830.5	1666.3	1349.3	1299.1	1283.5	1280.3	1280.3	1280.3
20°	7142.1	6329.4	4252.0	2284.5	1390.1	1274.0	1242.7	1233.2	1230.1	1230.1	1227.0
22.5°	7214.3	6282.3	3847.2	1794.9	1280.3	1220.7	1192.4	1186.2	1183.0	1179.9	1179.9
25°	7317.9	6222.7	3417.3	1468.6	1211.3	1170.5	1142.2	1136.0	1132.8	1120.3	1123.4
27.5°	7455.9	6178.8	2974.8	1267.8	1148.5	1107.7	1088.9	1079.5	1073.2	1063.8	1066.9
30°	7644.2	6141.1	2504.1	1157.9	1076.3	1041.8	1023.0	1016.7	1010.4	1001.0	1001.0
32.5°	7970.6	6156.8	2008.3	1070.1	1010.4	969.6	950.8	944.5	938.3	928.9	928.9
35°	8460.1	6247.8	1606.7	994.8	932.0	891.2	872.4	872.4	863.0	850.4	847.3
37.5°	9260.3	6480.0	1289.7	922.6	856.7	819.0	797.1	790.8	781.4	762.5	759.4
40°	10204.9	6840.9	1085.8	850.4	787.6	750.0	731.2	712.3	687.2	668.4	665.3
42.5°	11391.0	7211.2	941.4	778.2	721.7	687.2	665.3	633.9	596.2	571.1	568.0
45°	12627.4	7550.1	844.1	712.3	659.0	630.7	605.6	555.4	508.4	477.0	473.8
47.5°	13550.0	7612.8	765.7	649.6	605.6	577.4	542.9	480.1	417.4	389.1	379.7
50°	13986.2	7308.5	684.1	586.8	552.3	520.9	477.0	404.8	335.8	301.3	295.0
52.5°	14139.9	6781.3	618.2	530.3	498.9	461.3	407.9	326.4	263.6	229.1	225.9
55°	14077.2	6116.0	558.6	477.0	436.2	392.3	338.9	260.5	194.6	166.3	160.0
57.5°	13747.7	5268.7	498.9	423.6	373.4	329.5	269.9	194.6	131.8	106.7	103.6
60°	12859.6	4113.9	439.3	364.0	316.9	269.9	213.4	138.1	81.6	59.6	59.6
62.5°	11359.6	3053.3	382.8	304.4	266.7	216.5	150.6	87.9	43.9	31.4	28.2
65°	9492.5	2253.1	320.1	257.3	222.8	169.5	106.7	53.3	22.0	9.4	6.3
67.5°	6624.4	1390.1	266.7	210.2	182.0	122.4	65.9	22.0	9.4	0.0	0.0
70°	3009.4	662.1	204.0	160.0	138.1	87.9	34.5	12.6	6.3	0.0	0.0
72.5°	935.1	348.3	144.3	116.1	94.1	56.5	18.8	9.4	6.3	0.0	0.0
75°	433.0	222.8	91.0	62.8	53.3	28.2	12.6	6.3	3.1	0.0	0.0
77.5°	323.2	172.6	53.3	34.5	28.2	18.8	9.4	6.3	3.1	0.0	0.0
80°	282.4	87.9	31.4	22.0	15.7	12.6	6.3	3.1	0.0	0.0	0.0
82.5°	254.2	43.9	18.8	12.6	9.4	6.3	3.1	3.1	0.0	0.0	0.0
85°	138.1	25.1	12.6	9.4	6.3	3.1	3.1	0.0	0.0	0.0	0.0
87.5°	25.1	12.6	9.4	6.3	6.3	3.1	3.1	3.1	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)