

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: P458163

Luminaire Tested: **GALN-SA9C-740-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46106 lumens  
Efficiency: N/A  
Efficacy: 95.9 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

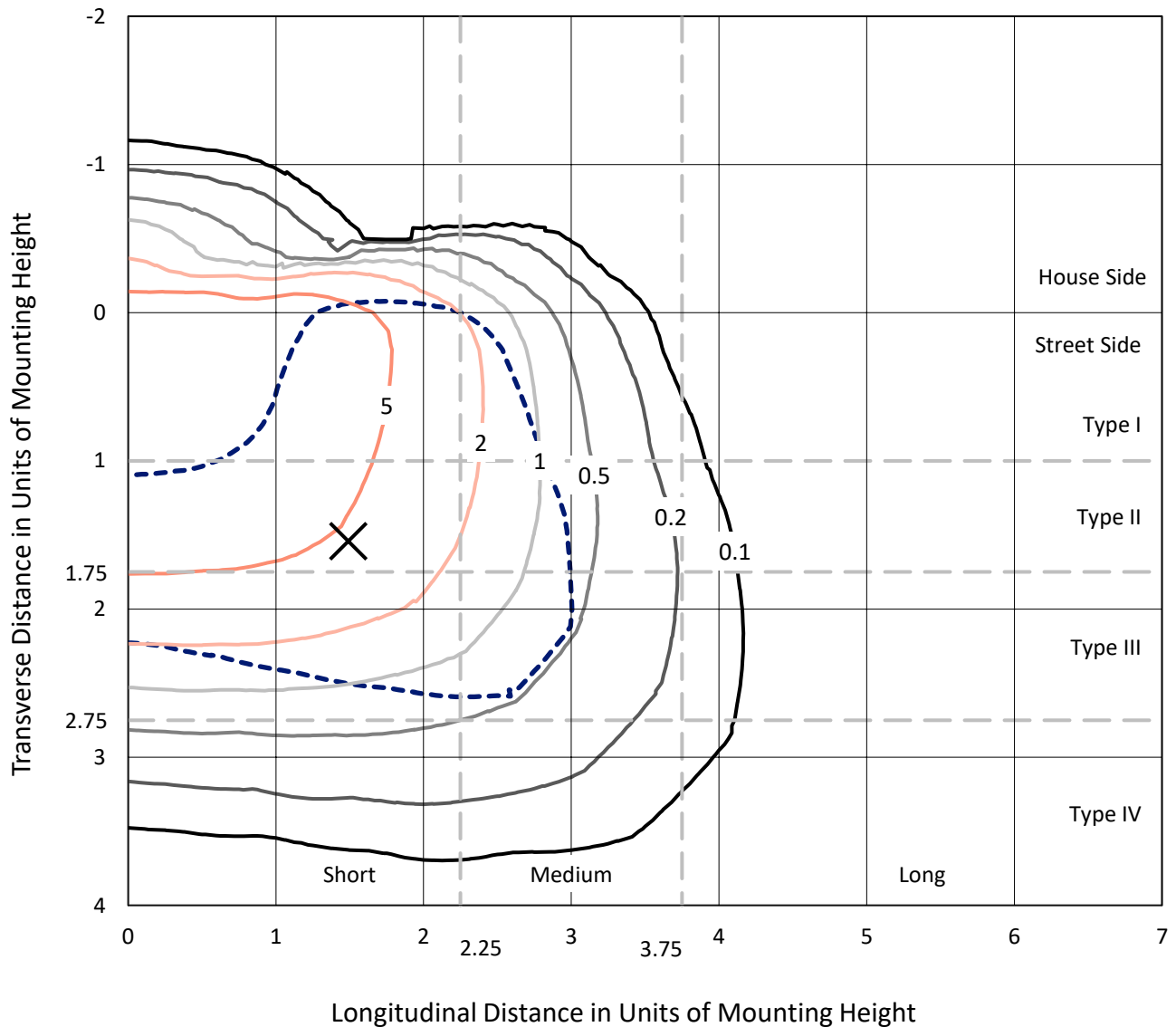
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

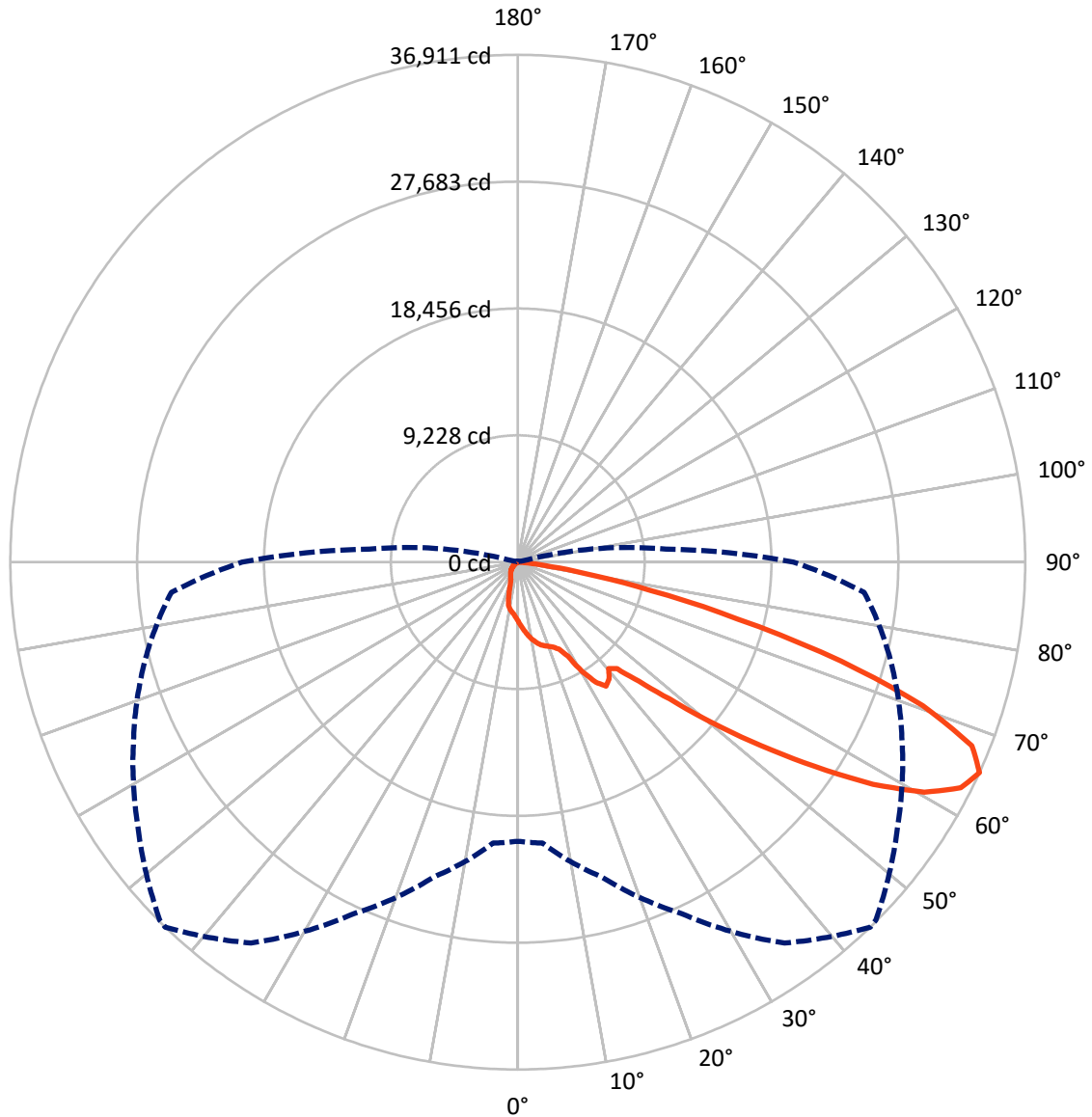
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4248.0	0.0	4248.0
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	41858.0	0.0	41858.0
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	46106.0	0.0	46106.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.8	0.9
10°-20°	1284.5	2.8
20°-30°	2178.1	4.7
30°-40°	3621.4	7.9
40°-50°	6323.0	13.7
50°-60°	12353.0	26.8
60°-70°	14332.3	31.1
70°-80°	5219.1	11.3
80°-90°	367.7	0.8
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°	46106.0	100.0
0°-180°	46106.0	100.0

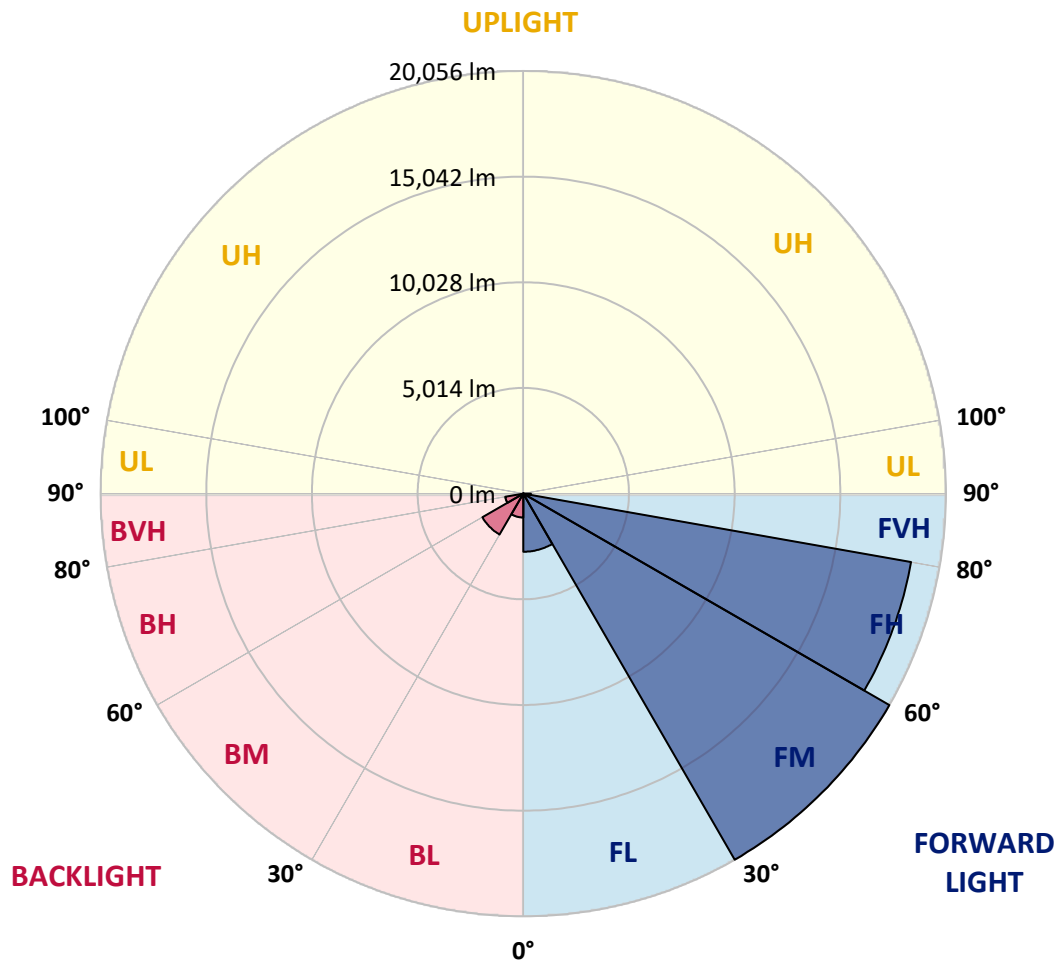


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2757.6	6.0			
FM (30°-60°)	20056.2	43.5			
FH (60°-80°)	18681.5	40.5			G5
FVH (80°-90°)	362.7	0.8			G3/500
BL (0°-30°)	1131.8	2.5	B3/2500		
BM (30°-60°)	2241.2	4.9	B2/2500		
BH (60°-80°)	869.9	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.0	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1
2.5°	4830.1	4809.0	4798.4	4742.0	4699.8	4646.9	4646.9	4580.0	4502.5	4417.9	4340.4
5°	5369.2	5333.9	5288.1	5238.8	5140.2	4999.2	4999.2	4858.3	4696.2	4551.8	4393.3
7.5°	5887.0	5855.3	5777.8	5682.7	5520.6	5372.7	5362.1	5157.8	4964.0	4745.6	4520.1
10°	6341.5	6316.9	6249.9	6066.7	5897.6	5703.8	5700.3	5471.3	5245.8	4978.1	4699.8
12.5°	6658.6	6662.1	6574.0	6397.9	6179.5	5996.3	5982.2	5756.7	5520.6	5231.8	4890.0
15°	6884.1	6884.1	6792.5	6595.2	6397.9	6235.8	6221.7	6024.4	5781.4	5467.8	5097.9
17.5°	6947.5	6968.6	6870.0	6693.8	6535.3	6394.4	6390.8	6225.3	6031.5	5728.5	5309.3
20°	6922.8	6944.0	6866.5	6729.1	6619.8	6538.8	6528.2	6461.3	6281.6	5996.3	5534.7
22.5°	6870.0	6891.1	6834.7	6753.7	6700.9	6725.5	6707.9	6764.3	6669.2	6323.9	5802.5
25°	6880.5	6901.7	6859.4	6813.6	6859.4	7010.9	7056.7	7299.8	7215.2	6739.6	6091.4
27.5°	7211.7	7254.0	7194.1	7215.2	7377.3	7729.6	7817.7	8236.9	7863.5	7268.1	6542.3
30°	7948.0	7919.9	7807.1	7909.3	8473.0	9219.9	9195.2	9128.3	8543.4	7877.6	7077.8
32.5°	8617.4	8592.8	8585.7	9026.1	10047.8	10410.7	10393.0	9744.8	9152.9	8575.1	7606.3
35°	8888.7	8793.6	8772.4	9839.9	11548.6	11069.5	10960.3	9998.5	9892.8	9336.1	8145.3
37.5°	9706.0	9639.1	9311.5	9973.8	10949.7	10791.1	10706.6	10435.3	10681.9	10009.0	8754.8
40°	11390.1	11203.3	10907.4	10259.2	10100.6	10167.6	10252.1	10995.5	11615.5	10928.5	9568.6
42.5°	13482.8	13440.5	12890.9	11682.5	10495.2	10586.8	10696.0	12165.1	12957.8	12313.1	10896.8
45°	15994.7	16054.6	15261.9	13835.1	12277.9	12355.4	12513.9	13891.4	14775.7	14465.7	12986.0
47.5°	18277.7	18231.9	17964.1	16480.9	15043.5	14870.9	15128.0	16107.5	17291.2	17340.5	15579.0
50°	20574.7	20817.8	20419.7	19838.4	18770.9	18408.0	18312.9	18792.0	20595.8	20359.8	18693.4
52.5°	23875.8	24002.6	23255.8	23107.8	23350.9	22174.2	22079.1	22195.3	23808.9	22998.6	21025.7
55°	25950.9	25876.9	25598.6	26754.2	27716.0	26246.8	26127.1	25658.5	26475.8	24862.3	23269.8
57.5°	26606.2	26711.9	27360.1	29449.3	31725.2	30478.0	30259.6	28927.9	28399.4	26599.1	25334.4
60°	26313.8	26507.5	27906.2	31013.5	34170.2	33983.5	33796.8	31559.6	29780.5	28050.6	26782.3
62.5°	24231.6	24502.9	26740.1	30735.2	34998.1	36164.3	35931.7	33201.4	30700.0	28755.3	27036.0
65°	20306.9	20507.8	23720.8	28209.2	33821.4	36911.2	36826.6	33715.7	30844.4	28110.5	25299.1
67.5°	14476.3	15159.8	18136.7	23773.6	30340.6	35635.8	35780.3	33099.2	29488.1	25323.8	20951.7
70°	9100.1	9565.1	11700.1	17019.9	24323.2	31263.7	31739.3	30277.2	25591.5	19739.7	14025.3
72.5°	4340.4	4685.7	6207.6	10773.5	17167.9	24598.0	24975.0	24855.2	19789.1	12436.4	7236.4
75°	1934.2	2064.5	2962.9	5499.5	11083.6	16533.7	17509.6	17671.7	12366.0	6084.3	2814.9
77.5°	986.5	990.0	1388.1	2663.4	5534.7	9864.6	10058.4	10625.6	6704.4	2681.1	979.4
80°	524.9	560.2	736.3	1257.7	2871.3	4858.3	4833.6	5312.8	2973.5	1314.1	327.6
82.5°	236.0	260.7	415.7	658.8	1402.2	1842.6	1987.0	2173.7	1275.3	838.5	144.4
85°	70.5	84.6	204.3	331.2	507.3	532.0	595.4	768.0	722.2	595.4	74.0
87.5°	10.6	10.6	84.6	91.6	74.0	95.1	98.6	109.2	232.5	218.4	38.8
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°	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1	4291.1
2.5°	4298.1	4273.5	4185.4	4111.4	4048.0	4009.2	3963.4	3935.3	3921.2	3910.6	3914.1
5°	4315.8	4255.9	4104.4	3984.6	3893.0	3794.3	3727.4	3688.6	3671.0	3642.8	3642.8
7.5°	4414.4	4319.3	4107.9	3924.7	3766.2	3632.3	3505.5	3459.7	3427.9	3420.9	3413.9
10°	4555.3	4435.5	4146.6	3893.0	3667.5	3484.3	3304.6	3146.1	3022.8	2948.8	2938.2
12.5°	4731.5	4558.8	4206.5	3871.8	3583.0	3258.8	2783.2	2462.6	2247.7	2180.8	2191.3
15°	4893.5	4706.8	4266.4	3854.2	3427.9	2702.2	2163.2	1796.8	1687.5	1677.0	1680.5
17.5°	5087.3	4865.4	4336.9	3829.6	3001.7	2064.5	1606.5	1507.9	1529.0	1564.2	1560.7
20°	5288.1	5034.5	4421.4	3681.6	2395.7	1553.7	1419.8	1430.4	1462.1	1493.8	1500.8
22.5°	5503.0	5228.2	4520.1	3325.8	1828.5	1352.9	1345.8	1359.9	1391.6	1426.8	1433.9
25°	5799.0	5471.3	4594.1	2860.7	1384.6	1250.7	1264.8	1289.4	1317.6	1356.4	1363.4
27.5°	6179.5	5799.0	4632.8	2254.8	1197.8	1159.1	1162.6	1197.8	1233.1	1268.3	1268.3
30°	6672.7	6190.0	4555.3	1705.2	1106.2	1071.0	1056.9	1078.1	1123.9	1159.1	1162.6
32.5°	7113.1	6559.9	4351.0	1303.5	1039.3	990.0	954.8	958.3	975.9	997.0	1000.6
35°	7553.5	6919.3	4002.2	1095.7	968.8	912.5	859.6	831.4	817.4	806.8	817.4
37.5°	8117.1	7366.7	3537.2	997.0	909.0	838.5	764.5	704.6	655.3	623.6	630.6
40°	8842.9	7986.8	2987.6	933.6	852.6	768.0	669.4	591.9	507.3	479.1	465.0
42.5°	10040.7	8927.4	2409.8	880.8	796.2	694.0	570.7	465.0	387.5	359.4	366.4
45°	11932.6	10114.7	1856.7	824.4	739.8	613.0	479.1	366.4	303.0	288.9	295.9
47.5°	14441.0	11650.8	1430.4	761.0	669.4	524.9	377.0	288.9	250.1	246.6	243.1
50°	16801.5	13081.1	1194.3	690.5	584.8	436.9	310.0	243.1	218.4	214.9	214.9
52.5°	18936.5	14106.4	972.4	609.5	493.2	359.4	260.7	214.9	193.8	183.2	183.2
55°	20835.4	14775.7	789.2	510.8	387.5	285.4	225.5	193.8	169.1	155.0	151.5
57.5°	22269.3	14856.8	591.9	408.7	288.9	222.0	193.8	169.1	140.9	123.3	116.3
60°	22882.3	14155.7	436.9	310.0	214.9	176.2	155.0	137.4	105.7	88.1	84.6
62.5°	22265.8	12792.3	324.1	236.0	165.6	130.4	109.2	102.2	74.0	52.8	49.3
65°	20056.8	10822.9	257.2	179.7	123.3	95.1	70.5	66.9	45.8	24.7	21.1
67.5°	16068.7	8476.5	204.3	133.9	88.1	63.4	45.8	42.3	24.7	7.0	7.0
70°	10449.4	5418.5	165.6	98.6	56.4	42.3	28.2	21.1	14.1	3.5	0.0
72.5°	5168.3	2533.1	133.9	77.5	38.8	21.1	10.6	7.0	10.6	0.0	0.0
75°	2004.6	901.9	98.6	52.8	21.1	10.6	7.0	0.0	3.5	0.0	0.0
77.5°	665.9	299.5	59.9	28.2	14.1	7.0	0.0	0.0	0.0	0.0	0.0
80°	246.6	116.3	31.7	17.6	7.0	3.5	0.0	0.0	0.0	0.0	0.0
82.5°	98.6	45.8	21.1	14.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	49.3	28.2	14.1	10.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	35.2	21.1	14.1	10.6	7.0	3.5	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)