

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: P532871

Luminaire Tested: **GALN-SA8B-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24988.9 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

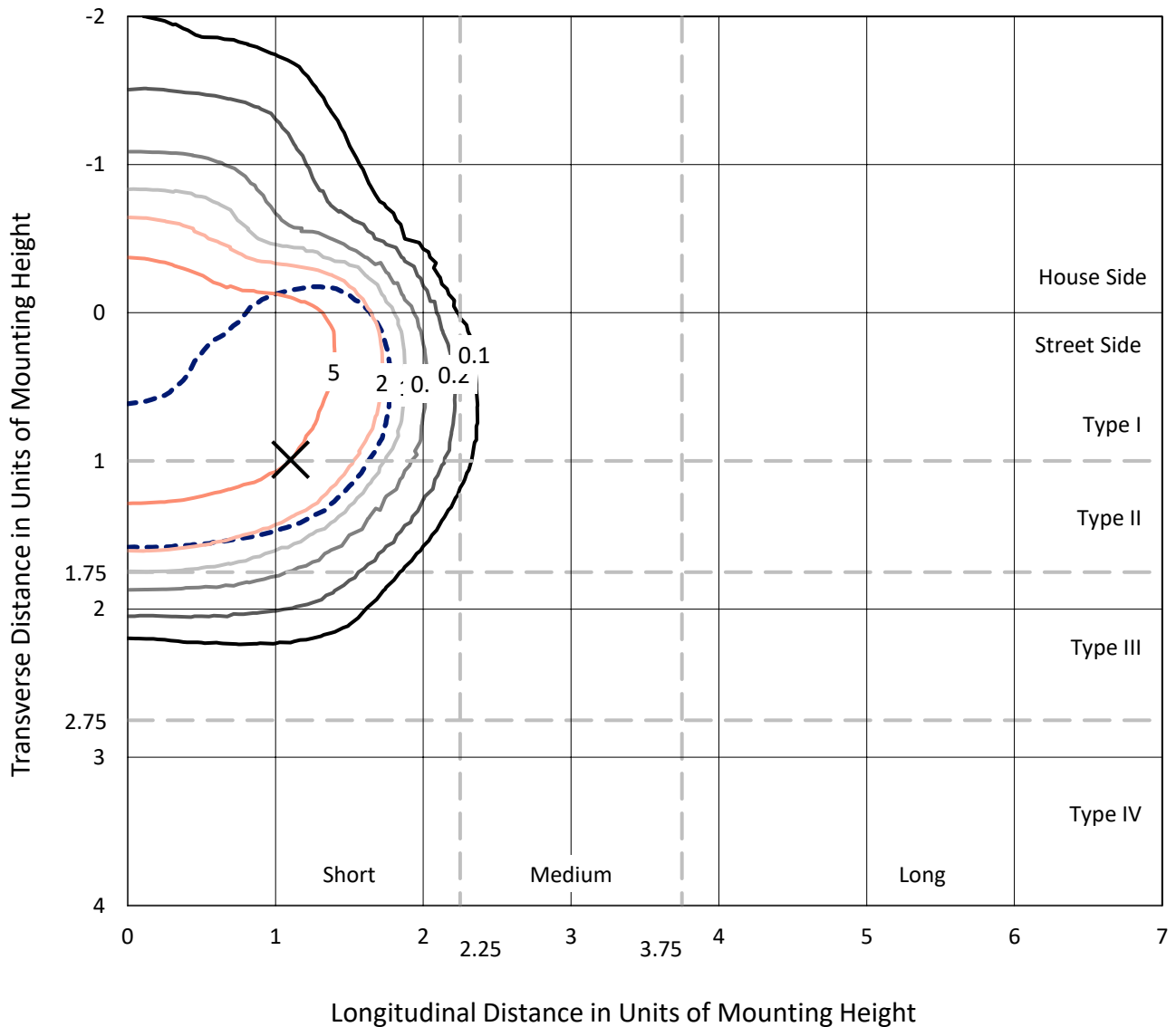
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

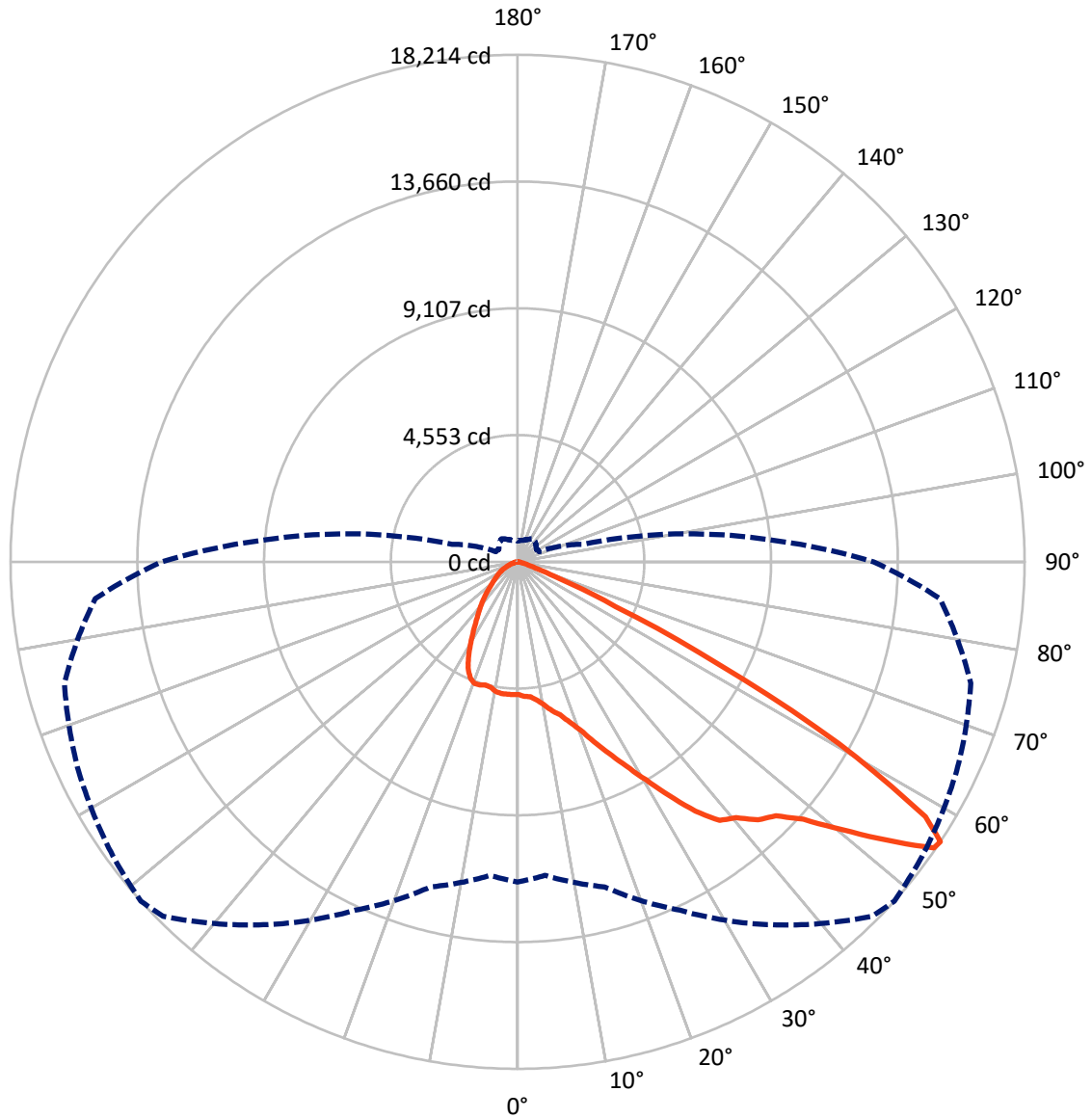
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5434.6	0.0	5434.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	19554.3	0.0	19554.3
	% Fixture	78.3	0.0	78.3
Total	Lumens	24988.9	0.0	24988.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.9	1.9
10°-20°	1485.8	5.9
20°-30°	2695.0	10.8
30°-40°	4233.4	16.9
40°-50°	6175.7	24.7
50°-60°	7440.5	29.8
60°-70°	2178.5	8.7
70°-80°	276.3	1.1
80°-90°	38.7	0.2
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°	24988.9	100.0
0°-180°	24988.9	100.0

Coefficient of Utilization



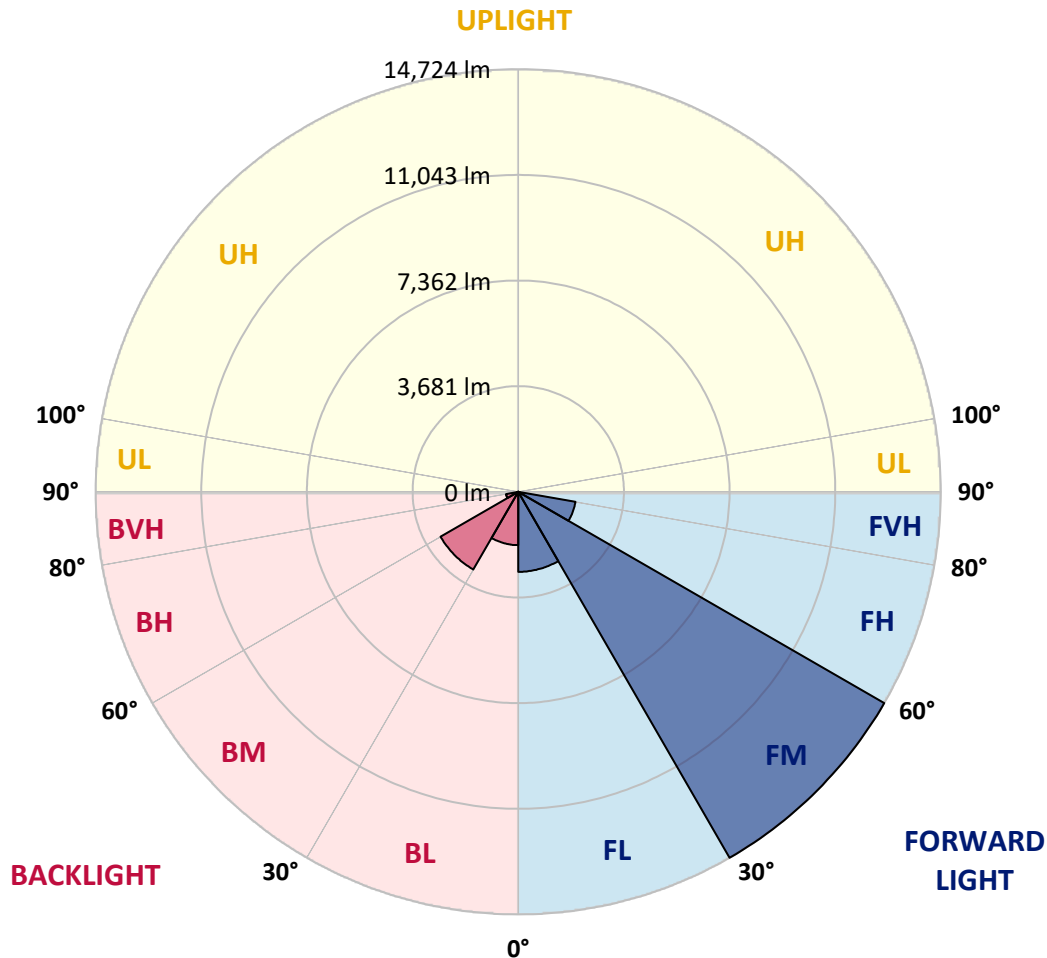
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2788.3	11.2			
FM (30°-60°)	14723.6	58.9			
FH (60°-80°)	2023.0	8.1			G2/5000
FVH (80°-90°)	19.4	0.1			G1/100
BL (0°-30°)	1857.5	7.4	B3/2500		
BM (30°-60°)	3126.0	12.5	B3/5000		
BH (60°-80°)	431.8	1.7	B1/500		G1/500
BVH (80°-90°)	19.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9
2.5°	4859.4	4836.6	4836.6	4800.2	4841.2	4823.0	4836.6	4791.1	4836.6	4768.4	4823.0
5°	4882.1	4886.7	4868.5	4891.2	4891.2	4918.5	4873.0	4914.0	4936.7	4886.7	4863.9
7.5°	5000.4	5009.5	5005.0	4986.8	5023.2	5018.6	5014.1	4982.2	4991.3	4973.1	4945.8
10°	5232.5	5227.9	5250.7	5205.2	5177.9	5209.7	5218.8	5168.8	5132.4	5118.7	5032.3
12.5°	5569.2	5514.6	5482.7	5437.2	5450.9	5405.4	5487.3	5400.8	5382.6	5300.7	5214.3
15°	5842.2	5833.1	5837.6	5764.8	5682.9	5701.1	5701.1	5655.6	5628.3	5528.2	5405.4
17.5°	6401.8	6210.7	6251.6	6160.6	6092.4	6087.8	6046.9	6056.0	5983.2	5773.9	5587.4
20°	6838.6	6756.7	6693.0	6538.3	6433.6	6465.5	6447.3	6401.8	6379.0	6106.0	5842.2
22.5°	7229.9	7257.2	7152.5	7111.6	6966.0	6979.6	7016.0	6975.1	6802.2	6520.1	6128.8
25°	7780.4	7748.6	7607.5	7557.5	7421.0	7471.0	7612.1	7580.2	7471.0	6961.4	6351.7
27.5°	8431.1	8321.9	8349.2	8121.7	7989.7	8130.8	8299.1	8458.4	8149.0	7480.1	6615.6
30°	8890.6	8776.9	8767.8	8758.7	8726.8	8890.6	9086.3	9231.9	8981.6	7998.8	7052.4
32.5°	9118.1	9145.4	9222.8	9195.5	9473.0	9809.7	10014.5	10223.8	9909.8	8845.1	7630.3
35°	9723.3	9550.4	9723.3	9741.5	10028.1	10742.5	11001.8	11502.3	11425.0	10041.8	8335.5
37.5°	10078.2	10064.5	10087.3	10260.2	10537.7	11420.4	11789.0	12175.7	12030.1	10760.7	9213.7
40°	10665.1	10701.5	10697.0	10828.9	11133.8	11930.0	12080.1	12394.1	12407.7	11757.1	10505.9
42.5°	11607.0	11461.4	11365.8	11502.3	11930.0	12371.3	12671.6	12607.9	13058.4	12967.4	12166.6
45°	12453.2	12539.7	12398.6	12626.1	12780.8	13017.4	13008.3	13144.8	13718.1	14150.4	13417.8
47.5°	13244.9	13299.5	13367.8	13522.5	13859.2	13895.6	13818.2	13759.1	14550.8	14996.7	14387.0
50°	13718.1	13768.2	14086.7	14364.2	14992.1	15074.0	15119.5	14969.4	15506.3	15556.3	15301.5
52.5°	13590.7	13645.3	14091.2	15005.8	16006.8	16757.5	16621.0	16366.2	16334.4	16530.0	16147.8
55°	12462.3	12412.3	13026.5	14450.7	16325.3	18127.0	18145.2	17876.8	17362.7	17230.7	16020.4
56°	11502.3	11306.7	12089.2	13809.1	15915.8	18008.7	18213.5	17926.8	17444.6	16853.1	15233.3
57.5°	9423.0	9609.5	10387.6	11811.7	14500.7	17157.9	17276.2	17208.0	16844.0	15852.1	13404.2
60°	5196.1	5523.7	6210.7	7953.3	10323.9	13167.6	13263.1	13818.2	13886.5	12139.3	9222.8
62.5°	2206.7	2170.3	2884.7	4167.8	5878.6	7948.8	8126.2	8695.0	8799.6	6997.8	4627.3
65°	896.3	946.4	1305.8	2097.5	3107.6	3621.8	3872.0	4058.6	4404.4	2889.2	1706.2
67.5°	591.5	586.9	768.9	1196.6	1674.4	1615.2	1615.2	1706.2	1578.8	1178.4	737.1
70°	423.1	436.8	550.5	828.1	1041.9	773.5	741.6	709.8	805.3	778.0	596.0
72.5°	277.5	295.7	368.5	495.9	541.4	423.1	423.1	509.6	664.3	627.9	486.8
75°	182.0	186.5	227.5	286.6	268.4	218.4	241.1	341.2	482.3	464.1	345.8
77.5°	122.8	127.4	154.7	186.5	150.1	122.8	131.9	172.9	236.6	236.6	182.0
80°	45.5	50.0	63.7	59.1	68.2	86.4	95.5	118.3	141.0	141.0	122.8
82.5°	0.0	4.5	13.6	31.8	50.0	68.2	77.3	91.0	104.6	118.3	113.7
85°	0.0	4.5	13.6	22.7	36.4	40.9	45.5	31.8	27.3	27.3	22.7
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	4.5	4.5	9.1	4.5	4.5
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°	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9	4772.9
2.5°	4772.9	4768.4	4768.4	4754.7	4782.0	4768.4	4777.5	4772.9	4713.8	4759.3	4727.4
5°	4823.0	4854.8	4804.8	4795.7	4759.3	4772.9	4772.9	4727.4	4768.4	4763.8	4754.7
7.5°	4950.4	4895.8	4841.2	4786.6	4777.5	4763.8	4713.8	4695.6	4727.4	4691.0	4745.6
10°	5005.0	5014.1	4932.2	4859.4	4791.1	4695.6	4627.3	4586.4	4536.3	4590.9	4622.8
12.5°	5255.2	5164.2	5023.2	4909.4	4677.4	4581.8	4513.6	4495.4	4581.8	4600.0	4568.2
15°	5341.7	5328.0	5146.0	4891.2	4650.1	4536.3	4550.0	4513.6	4522.7	4477.2	4486.3
17.5°	5519.1	5364.4	5150.6	4832.1	4645.5	4618.2	4536.3	4390.7	4308.8	4272.4	4304.3
20°	5714.8	5564.6	5255.2	4854.8	4686.5	4613.7	4345.2	4167.8	3999.4	3908.4	3913.0
22.5°	5887.7	5701.1	5209.7	4863.9	4722.9	4422.6	4099.5	3749.2	3539.9	3398.8	3403.4
25°	6096.9	5833.1	5227.9	4882.1	4627.3	4117.7	3653.6	3312.4	3062.1	2966.6	2998.4
27.5°	6215.2	5915.0	5328.0	4923.1	4377.1	3685.5	3185.0	2866.5	2720.9	2675.4	2670.8
30°	6570.1	6096.9	5450.9	4841.2	3958.5	3221.4	2757.3	2561.6	2420.6	2379.6	2388.7
32.5°	7097.9	6429.1	5610.1	4627.3	3530.8	2807.3	2479.7	2334.1	2202.2	2124.8	2115.7
35°	7539.3	6997.8	5778.5	4295.2	3034.8	2488.8	2284.1	2102.1	1901.9	1815.4	1792.7
37.5°	8381.0	7639.4	5742.1	3794.7	2561.6	2252.2	2074.8	1851.8	1678.9	1560.6	1547.0
40°	9500.3	8390.1	5564.6	3185.0	2211.3	2042.9	1851.8	1638.0	1424.1	1324.0	1314.9
42.5°	10860.8	9309.2	5241.6	2566.2	1860.9	1833.6	1660.7	1415.0	1223.9	1151.1	1155.7
45°	11966.4	10096.4	4914.0	2061.1	1601.6	1628.9	1478.7	1246.7	1114.7	1055.6	1055.6
47.5°	12949.2	10628.7	4559.1	1701.7	1360.4	1424.1	1292.2	1155.7	1041.9	996.4	987.3
50°	13895.6	11170.2	4204.2	1378.6	1160.2	1223.9	1210.3	1101.1	1010.1	955.5	960.0
52.5°	14487.1	11256.6	3753.7	1128.4	1014.6	1087.4	1132.9	1032.8	932.7	900.9	891.8
55°	13763.6	10141.9	2912.0	928.2	859.9	955.5	1041.9	928.2	850.8	796.2	791.7
56°	12789.9	9068.1	2434.2	855.4	814.4	919.1	1010.1	887.2	800.8	768.9	746.2
57.5°	10828.9	7421.0	1797.2	759.8	755.3	855.4	960.0	846.3	746.2	718.9	718.9
60°	6752.1	4176.9	1087.4	637.0	655.2	759.8	864.5	755.3	664.3	664.3	677.9
62.5°	3075.8	1738.1	659.7	541.4	564.2	655.2	768.9	682.5	632.4	682.5	691.6
65°	1046.5	750.7	477.7	432.2	445.9	541.4	659.7	691.6	687.0	718.9	737.1
67.5°	586.9	482.3	400.4	359.4	350.3	400.4	541.4	691.6	664.3	650.6	659.7
70°	495.9	409.5	354.9	318.5	304.8	323.0	418.6	523.2	468.6	455.0	445.9
72.5°	400.4	341.2	309.4	286.6	245.7	209.3	191.1	200.2	222.9	236.6	259.3
75°	282.1	259.3	259.3	232.0	177.4	131.9	104.6	86.4	59.1	40.9	45.5
77.5°	159.2	159.2	163.8	141.0	113.7	86.4	63.7	45.5	22.7	9.1	4.5
80°	109.2	118.3	127.4	113.7	95.5	77.3	54.6	31.8	13.6	0.0	0.0
82.5°	109.2	122.8	131.9	113.7	95.5	72.8	54.6	31.8	13.6	4.5	0.0
85°	22.7	27.3	31.8	36.4	54.6	54.6	40.9	27.3	13.6	4.5	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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)