

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: P647076

Luminaire Tested: **GALN-SA7C-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647076
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-SA7C-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA 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: 22896.5 lumens
Efficiency: N/A
Efficacy: 60.7 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

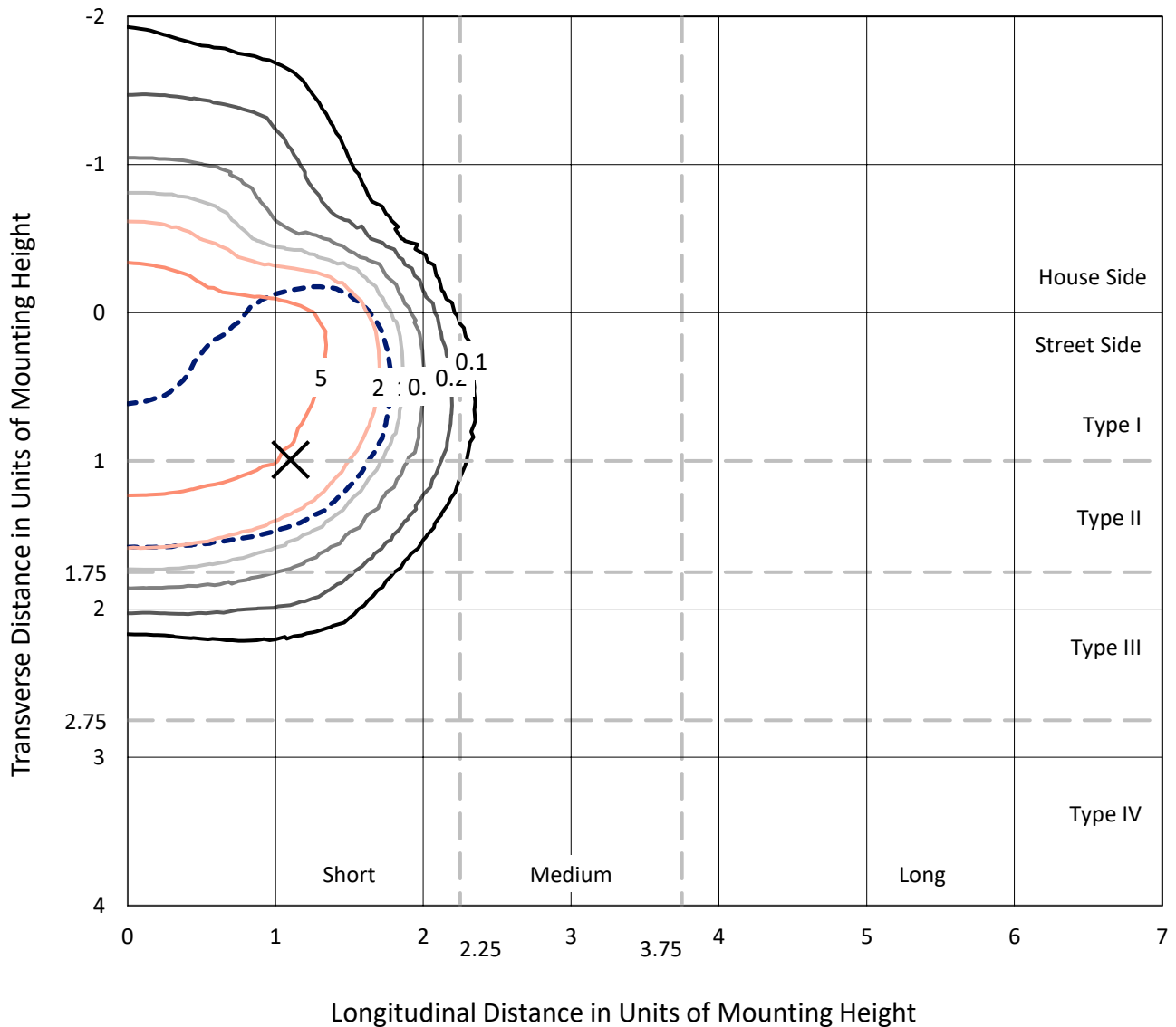
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

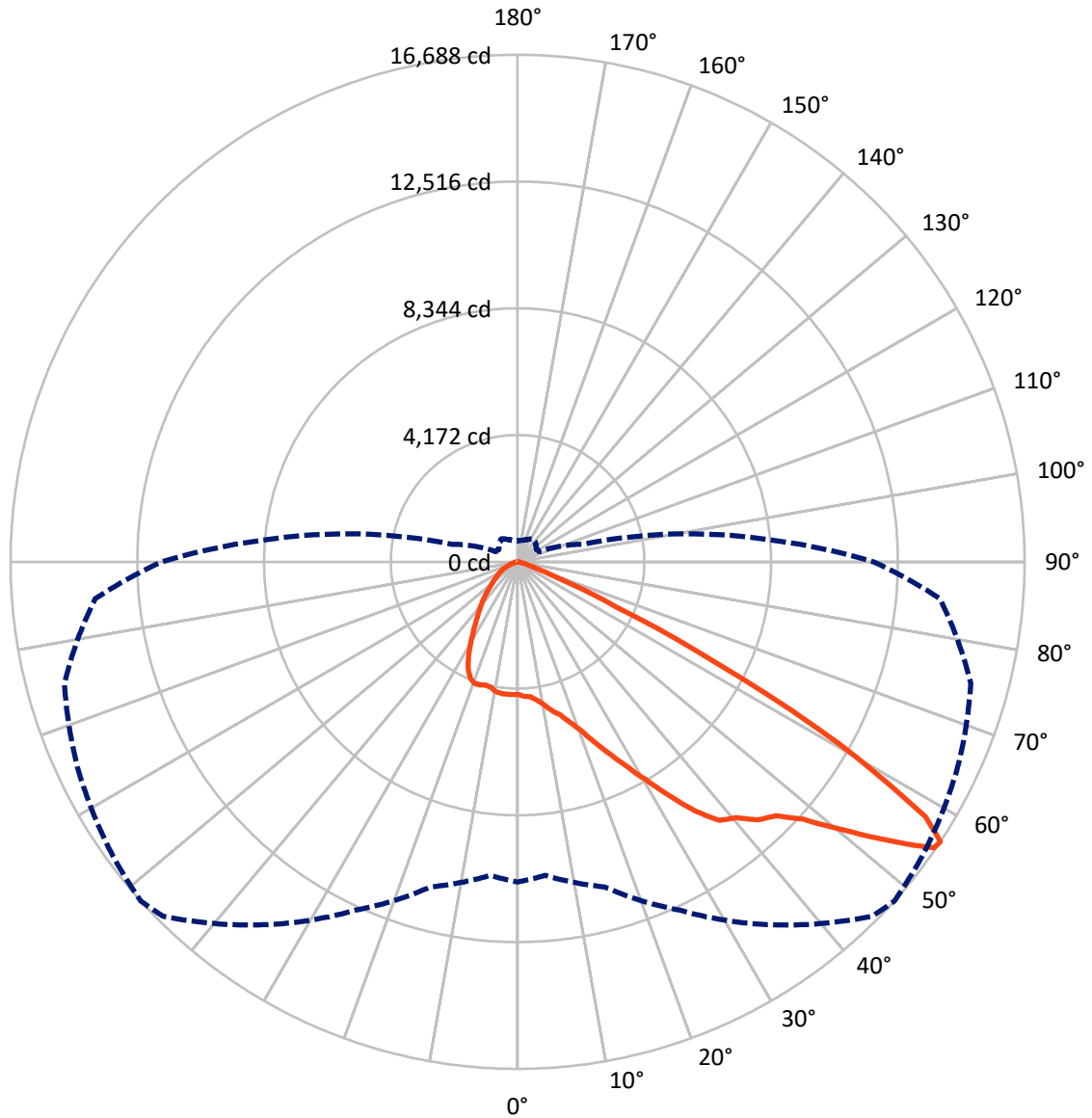
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	4979.5	0.0	4979.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	17916.9	0.0	17916.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	22896.5	0.0	22896.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.0	1.9
10°-20°	1361.4	5.9
20°-30°	2469.4	10.8
30°-40°	3878.9	16.9
40°-50°	5658.6	24.7
50°-60°	6817.5	29.8
60°-70°	1996.1	8.7
70°-80°	253.2	1.1
80°-90°	35.5	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°	22896.5	100.0
0°-180°	22896.5	100.0

Coefficient of Utilization



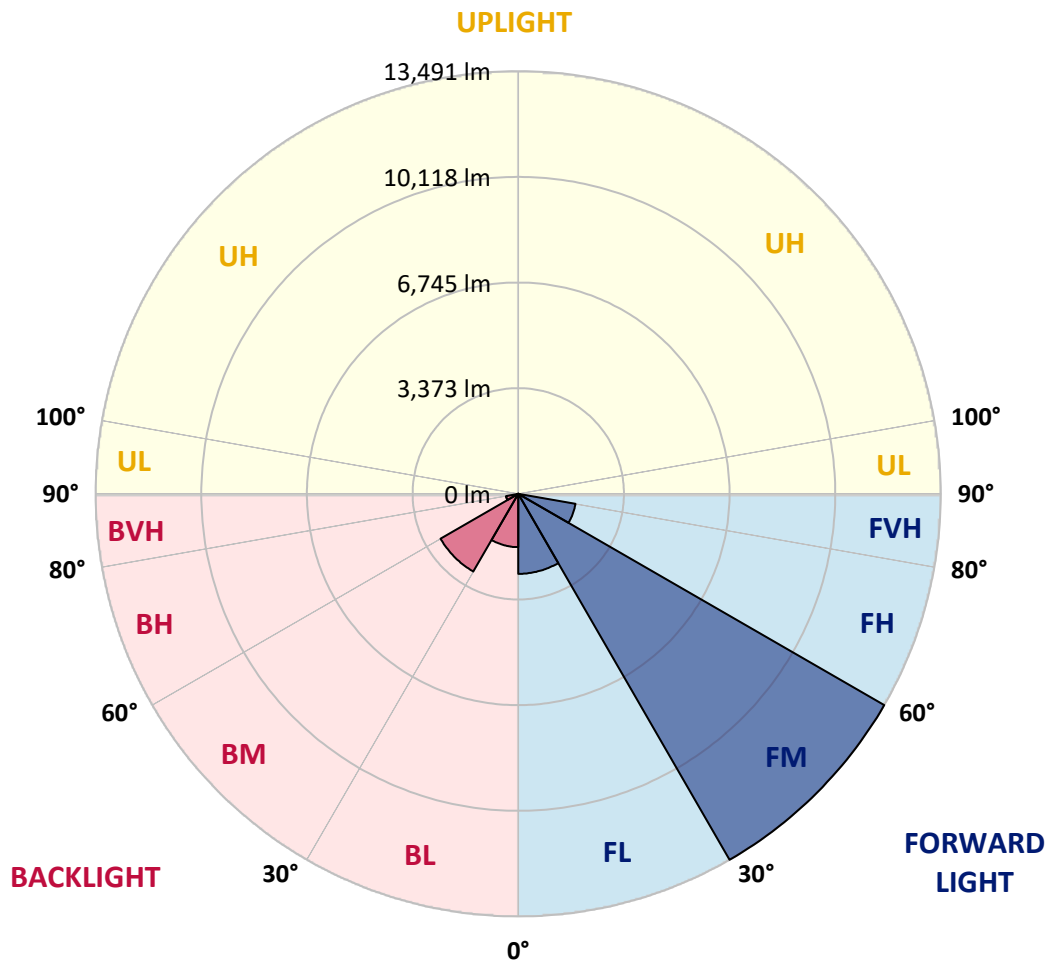
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2554.8	11.2			
FM (30°-60°)	13490.7	58.9			
FH (60°-80°)	1853.6	8.1			G2/5000
FVH (80°-90°)	17.8	0.1			G1/100
BL (0°-30°)	1702.0	7.4	B3/2500		
BM (30°-60°)	2864.2	12.5	B3/5000		
BH (60°-80°)	395.7	1.7	B1/500		G1/500
BVH (80°-90°)	17.7	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°	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2
2.5°	4452.5	4431.6	4431.6	4398.3	4435.8	4419.1	4431.6	4389.9	4431.6	4369.1	4419.1
5°	4473.3	4477.4	4460.8	4481.7	4481.7	4506.6	4465.0	4502.5	4523.3	4477.4	4456.6
7.5°	4581.7	4590.0	4585.9	4569.2	4602.6	4598.3	4594.2	4565.0	4573.3	4556.7	4531.7
10°	4794.3	4790.2	4811.0	4769.3	4744.3	4773.5	4781.8	4736.0	4702.6	4690.1	4610.9
12.5°	5102.8	5052.8	5023.6	4981.9	4994.4	4952.7	5027.8	4948.6	4931.9	4856.9	4777.6
15°	5353.0	5344.6	5348.8	5282.0	5207.0	5223.7	5223.7	5182.1	5157.0	5065.3	4952.7
17.5°	5865.7	5690.6	5728.1	5644.8	5582.2	5578.1	5540.6	5548.9	5482.2	5290.4	5119.5
20°	6266.0	6190.9	6132.5	5990.8	5894.9	5924.1	5907.4	5865.7	5844.9	5594.8	5353.0
22.5°	6624.5	6649.5	6553.6	6516.0	6382.7	6395.2	6428.5	6391.0	6232.6	5974.1	5615.6
25°	7128.9	7099.8	6970.5	6924.6	6799.6	6845.5	6974.7	6945.5	6845.5	6378.5	5819.9
27.5°	7725.1	7625.0	7650.1	7441.6	7320.7	7449.9	7604.2	7750.1	7466.6	6853.8	6061.7
30°	8146.2	8042.0	8033.6	8025.3	7996.1	8146.2	8325.4	8458.8	8229.6	7329.0	6461.9
32.5°	8354.6	8379.6	8450.4	8425.5	8679.8	8988.3	9175.9	9367.7	9080.0	8104.4	6991.3
35°	8909.1	8750.7	8909.1	8925.7	9188.3	9842.9	10080.6	10539.1	10468.2	9200.9	7637.5
37.5°	9234.2	9221.7	9242.6	9401.0	9655.3	10464.1	10801.8	11156.1	11022.8	9859.6	8442.1
40°	9772.1	9805.4	9801.2	9922.1	10201.5	10931.0	11068.6	11356.2	11368.8	10772.6	9626.1
42.5°	10635.0	10501.6	10414.1	10539.1	10931.0	11335.4	11610.6	11552.2	11964.9	11881.6	11147.8
45°	11410.4	11489.7	11360.4	11568.8	11710.6	11927.4	11919.1	12044.1	12569.4	12965.5	12294.3
47.5°	12135.9	12185.9	12248.4	12390.1	12698.6	12732.0	12661.1	12606.9	13332.3	13740.9	13182.3
50°	12569.4	12615.3	12907.1	13161.4	13736.7	13811.7	13853.5	13715.9	14207.8	14253.7	14020.2
52.5°	12452.7	12502.7	12911.3	13749.2	14666.4	15354.3	15229.2	14995.8	14966.6	15145.8	14795.6
55°	11418.8	11372.9	11935.7	13240.6	14958.2	16609.2	16625.8	16379.8	15908.8	15787.9	14678.9
56°	10539.1	10359.9	11076.9	12652.8	14583.0	16500.7	16688.3	16425.7	15983.8	15441.9	13957.7
57.5°	8633.9	8804.8	9517.8	10822.6	13286.5	15721.2	15829.5	15767.0	15433.5	14524.6	12281.7
60°	4761.0	5061.2	5690.6	7287.3	9459.3	12064.9	12152.6	12661.1	12723.7	11122.7	8450.4
62.5°	2021.9	1988.6	2643.1	3818.8	5386.3	7283.2	7445.8	7966.9	8062.8	6411.8	4239.9
65°	821.3	867.2	1196.5	1921.9	2847.4	3318.5	3547.8	3718.7	4035.6	2647.3	1563.3
67.5°	542.0	537.8	704.5	1096.4	1534.2	1479.9	1479.9	1563.3	1446.6	1079.8	675.3
70°	387.7	400.2	504.4	758.7	954.7	708.7	679.6	650.4	737.9	712.9	546.1
72.5°	254.3	271.0	337.7	454.5	496.1	387.7	387.7	466.9	608.7	575.3	446.1
75°	166.8	170.9	208.4	262.6	245.9	200.1	221.0	312.7	441.9	425.2	316.8
77.5°	112.6	116.7	141.7	170.9	137.6	112.6	120.9	158.4	216.8	216.8	166.8
80°	41.7	45.9	58.3	54.2	62.6	79.2	87.5	108.4	129.3	129.3	112.6
82.5°	0.0	4.1	12.5	29.2	45.9	62.6	70.9	83.4	95.9	108.4	104.2
85°	0.0	4.1	12.5	20.8	33.4	37.5	41.7	29.2	25.0	25.0	20.8
87.5°	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	8.3	4.1	4.1
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°	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2	4373.2
2.5°	4373.2	4369.1	4369.1	4356.5	4381.6	4369.1	4377.4	4373.2	4319.0	4360.8	4331.6
5°	4419.1	4448.3	4402.4	4394.1	4360.8	4373.2	4373.2	4331.6	4369.1	4364.9	4356.5
7.5°	4535.8	4485.8	4435.8	4385.7	4377.4	4364.9	4319.0	4302.4	4331.6	4298.2	4348.2
10°	4585.9	4594.2	4519.2	4452.5	4389.9	4302.4	4239.9	4202.3	4156.5	4206.5	4235.6
12.5°	4815.1	4731.7	4602.6	4498.3	4285.7	4198.1	4135.6	4118.9	4198.1	4214.8	4185.6
15°	4894.4	4881.8	4715.1	4481.7	4260.7	4156.5	4168.9	4135.6	4143.9	4102.3	4110.6
17.5°	5056.9	4915.2	4719.3	4427.5	4256.5	4231.5	4156.5	4023.1	3948.0	3914.7	3943.8
20°	5236.2	5098.7	4815.1	4448.3	4294.1	4227.3	3981.3	3818.8	3664.5	3581.1	3585.3
22.5°	5394.6	5223.7	4773.5	4456.6	4327.4	4052.3	3756.2	3435.3	3243.4	3114.2	3118.4
25°	5586.4	5344.6	4790.2	4473.3	4239.9	3772.9	3347.6	3035.0	2805.7	2718.2	2747.3
27.5°	5694.8	5419.6	4881.8	4510.8	4010.5	3376.8	2918.2	2626.4	2493.1	2451.3	2447.2
30°	6019.9	5586.4	4994.4	4435.8	3627.0	2951.6	2526.4	2347.1	2217.8	2180.3	2188.7
32.5°	6503.6	5890.7	5140.3	4239.9	3235.1	2572.2	2272.1	2138.7	2017.8	1946.9	1938.6
35°	6907.9	6411.8	5294.6	3935.5	2780.7	2280.4	2092.8	1926.0	1742.6	1663.4	1642.6
37.5°	7679.2	6999.7	5261.2	3476.9	2347.1	2063.6	1901.0	1696.8	1538.4	1429.9	1417.5
40°	8704.8	7687.6	5098.7	2918.2	2026.1	1871.8	1696.8	1500.9	1304.9	1213.2	1204.8
42.5°	9951.3	8529.7	4802.6	2351.3	1705.1	1680.1	1521.7	1296.6	1121.4	1054.8	1058.9
45°	10964.3	9250.9	4502.5	1888.5	1467.5	1492.5	1354.9	1142.3	1021.4	967.2	967.2
47.5°	11864.9	9738.7	4177.3	1559.2	1246.5	1304.9	1184.0	1058.9	954.7	913.0	904.7
50°	12732.0	10234.8	3852.1	1263.2	1063.1	1121.4	1109.0	1008.9	925.5	875.5	879.6
52.5°	13274.0	10314.0	3439.4	1033.9	929.7	996.4	1038.1	946.3	854.6	825.4	817.1
55°	12611.1	9292.6	2668.2	850.5	787.9	875.5	954.7	850.5	779.6	729.6	725.4
56°	11718.9	8308.7	2230.4	783.8	746.3	842.1	925.5	812.9	733.7	704.5	683.7
57.5°	9922.1	6799.6	1646.7	696.2	692.0	783.8	879.6	775.4	683.7	658.7	658.7
60°	6186.7	3827.1	996.4	583.6	600.3	696.2	792.1	692.0	608.7	608.7	621.2
62.5°	2818.3	1592.5	604.5	496.1	516.9	600.3	704.5	625.4	579.5	625.4	633.7
65°	958.9	687.9	437.8	396.0	408.6	496.1	604.5	633.7	629.5	658.7	675.3
67.5°	537.8	441.9	366.8	329.3	321.0	366.8	496.1	633.7	608.7	596.2	604.5
70°	454.5	375.2	325.2	291.8	279.3	296.0	383.5	479.4	429.4	416.9	408.6
72.5°	366.8	312.7	283.5	262.6	225.1	191.8	175.1	183.5	204.3	216.8	237.6
75°	258.5	237.6	237.6	212.6	162.6	120.9	95.9	79.2	54.2	37.5	41.7
77.5°	146.0	146.0	150.1	129.3	104.2	79.2	58.3	41.7	20.8	8.3	4.1
80°	100.1	108.4	116.7	104.2	87.5	70.9	50.0	29.2	12.5	0.0	0.0
82.5°	100.1	112.6	120.9	104.2	87.5	66.7	50.0	29.2	12.5	4.1	0.0
85°	20.8	25.0	29.2	33.4	50.0	50.0	37.5	25.0	12.5	4.1	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	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)