

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: P453244

Luminaire Tested: **GALN-SA4B-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20319 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

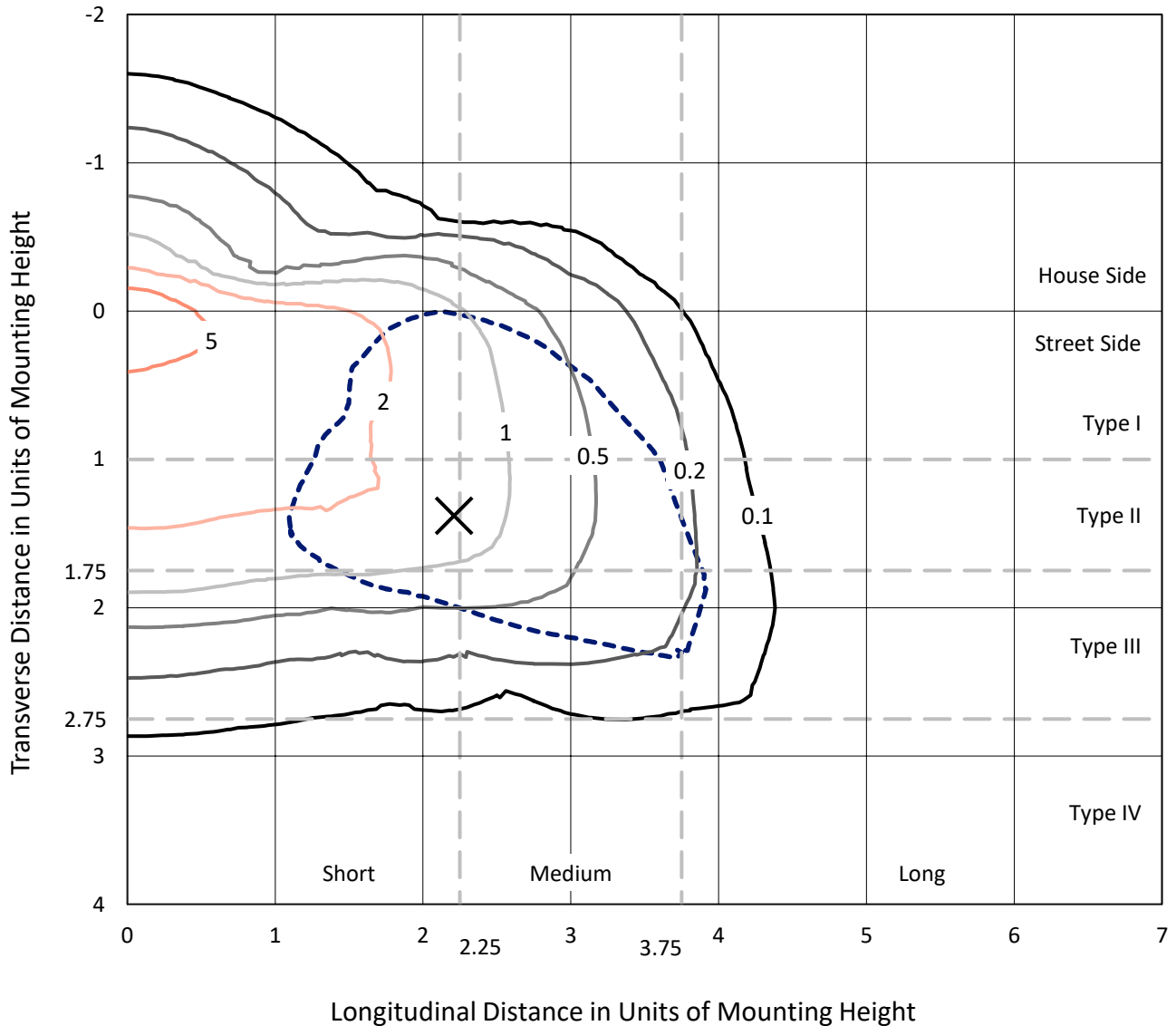
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

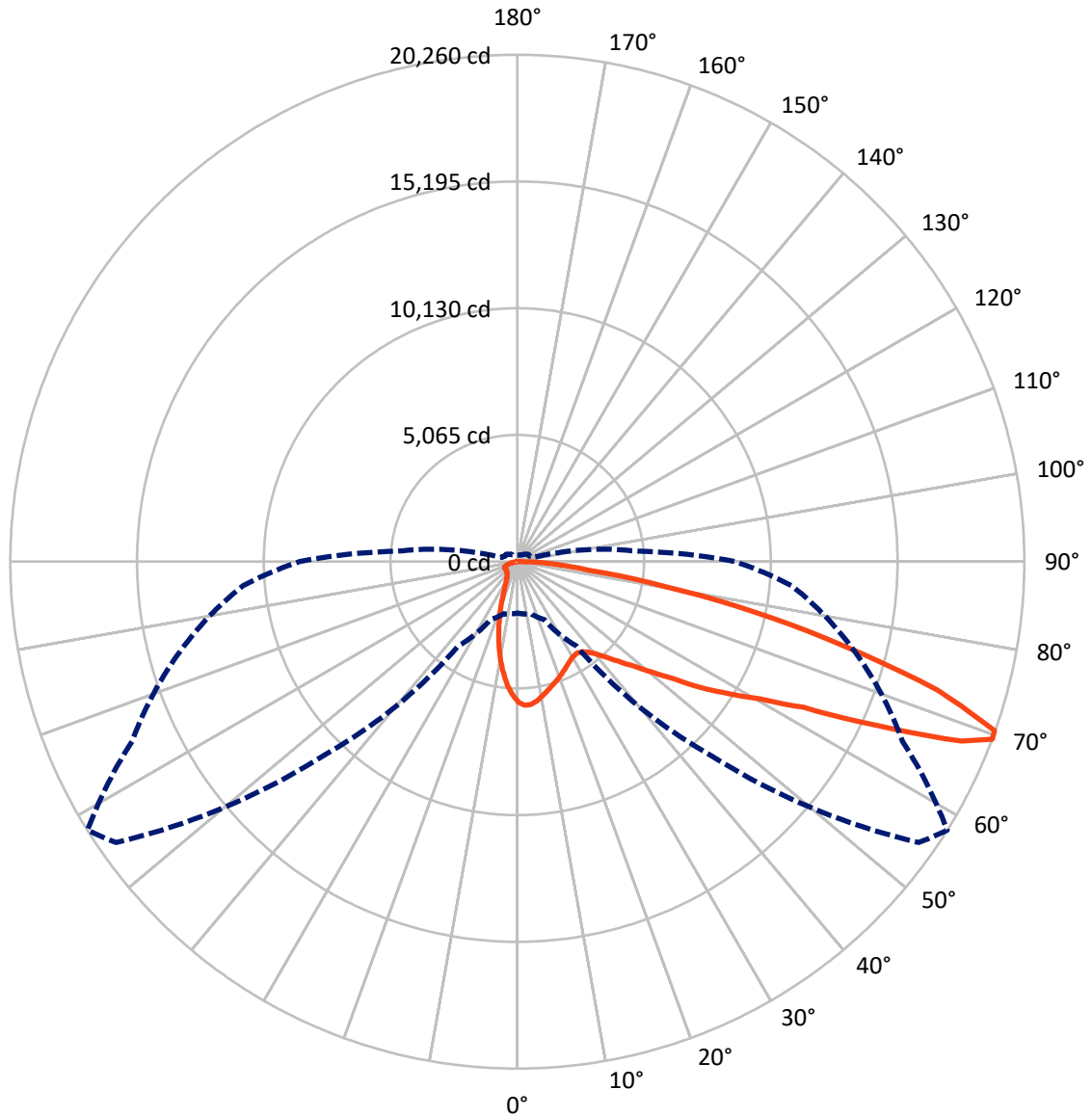
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2977.8	0.0	2977.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17341.2	0.0	17341.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	20319.0	0.0	20319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	476.8	2.3
10°-20°	1047.1	5.2
20°-30°	1352.8	6.7
30°-40°	1757.1	8.6
40°-50°	2554.5	12.6
50°-60°	4076.2	20.1
60°-70°	5445.3	26.8
70°-80°	3139.0	15.4
80°-90°	470.2	2.3
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°	20319.0	100.0
0°-180°	20319.0	100.0

Coefficient of Utilization



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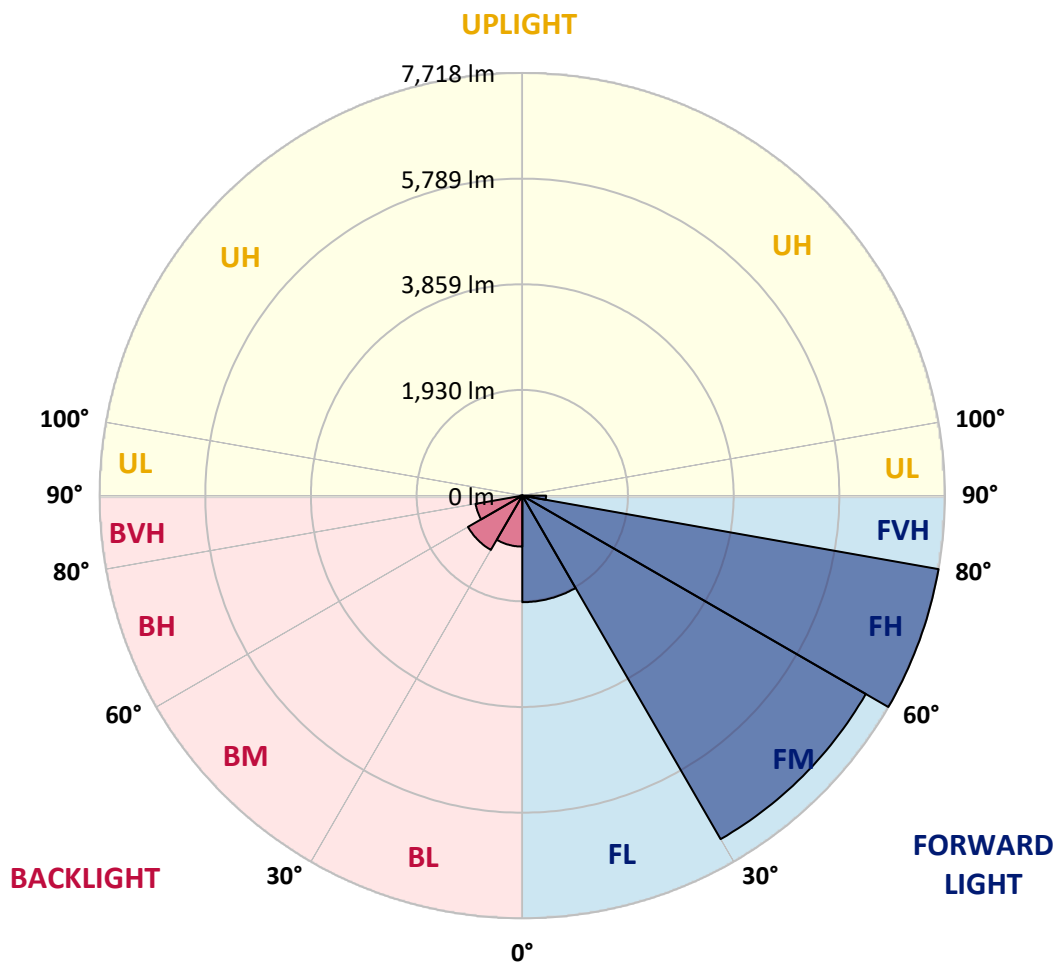
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1946.0	9.6			
FM	(30°-60°)	7242.7	35.6			
FH	(60°-80°)	7718.4	38.0			G4/12000
FVH	(80°-90°)	434.1	2.1			G3/500
BL	(0°-30°)	930.7	4.6	B2/1000		
BM	(30°-60°)	1145.1	5.6	B2/2500		
BH	(60°-80°)	865.9	4.3	B2/1000		G2/1000
BVH	(80°-90°)	36.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0
2.5°	5823.5	5839.4	5834.8	5829.2	5820.1	5795.2	5754.4	5747.6	5721.5	5666.0	5596.9
5°	5734.0	5747.6	5748.7	5756.6	5768.0	5763.4	5734.0	5730.6	5692.0	5617.2	5501.7
7.5°	5426.9	5445.0	5484.7	5528.9	5568.5	5605.9	5615.0	5620.6	5596.9	5510.7	5356.6
10°	5081.2	5099.4	5117.5	5183.2	5280.7	5373.6	5450.7	5460.9	5466.5	5387.2	5199.1
12.5°	4698.2	4735.6	4774.2	4871.6	5001.9	5148.1	5284.1	5305.6	5344.1	5284.1	5063.1
15°	4373.0	4411.5	4467.1	4554.3	4711.8	4922.6	5114.1	5149.2	5225.2	5194.6	4936.2
17.5°	4147.5	4161.1	4199.6	4299.3	4469.3	4691.4	4947.5	5017.8	5139.0	5131.1	4827.4
20°	3969.6	3986.6	4010.4	4071.6	4248.3	4482.9	4792.3	4882.9	5047.3	5074.4	4719.8
22.5°	3894.8	3907.3	3903.9	3936.7	4056.8	4292.5	4634.8	4742.4	4965.7	5035.9	4620.0
25°	3899.3	3910.7	3893.7	3885.7	3957.1	4124.8	4470.5	4607.6	4899.9	5009.9	4529.4
27.5°	3975.2	3983.2	3951.5	3919.7	3925.4	4020.6	4334.5	4486.3	4844.4	5021.2	4453.5
30°	4077.2	4092.0	4071.6	4033.0	3991.1	3995.6	4247.2	4396.8	4818.3	5060.8	4417.2
32.5°	4208.7	4222.3	4213.2	4182.6	4128.2	4068.2	4225.7	4363.9	4820.6	5141.3	4409.3
35°	4346.9	4374.1	4388.9	4386.6	4342.4	4238.1	4310.7	4425.1	4875.0	5276.2	4455.7
37.5°	4503.3	4526.0	4589.4	4630.2	4589.4	4468.2	4502.2	4581.5	4995.1	5471.1	4557.7
40°	4655.2	4689.2	4782.1	4909.0	4893.1	4786.6	4794.5	4846.7	5207.0	5761.2	4757.2
42.5°	4813.8	4854.6	5016.7	5204.8	5242.2	5159.4	5181.0	5227.4	5508.5	6163.4	5099.4
45°	5017.8	5066.5	5266.0	5500.5	5647.8	5596.9	5658.0	5680.7	5911.9	6687.0	5550.4
47.5°	5280.7	5337.3	5583.3	5875.6	6084.1	6130.6	6237.1	6223.5	6411.6	7306.8	6135.1
50°	5723.8	5755.5	5987.8	6285.8	6572.5	6782.2	6897.8	6919.3	7031.5	7909.7	6789.0
52.5°	6250.7	6279.0	6446.7	6707.4	7066.6	7510.8	7796.4	7726.1	7753.3	8644.0	7553.9
55°	6843.4	6891.0	6997.5	7170.9	7636.6	8290.5	8863.9	8880.9	8579.4	9346.6	8287.1
57.5°	7302.3	7382.8	7565.2	7812.2	8402.6	9157.4	9927.9	9939.3	9554.0	10096.8	9096.2
60°	7071.1	7166.3	7583.3	8185.1	9407.8	10670.2	11199.4	11134.8	10502.5	10951.2	10083.2
62.5°	6073.9	6090.9	6697.2	7637.7	9717.1	12694.1	13091.8	12818.7	11768.2	12034.5	11086.0
65°	3931.1	4042.1	4522.6	5840.5	8700.7	13817.0	16407.5	15776.3	13542.8	13264.0	11925.7
67.5°	2481.7	2453.4	2652.8	3335.0	5984.4	12827.8	19237.1	19137.4	15863.6	14040.3	11725.2
69°	2057.9	2089.6	2157.6	2556.5	4118.0	10952.3	19571.4	20260.4	16988.9	13979.1	10996.5
70°	1866.4	1881.1	1952.5	2266.4	3177.5	9173.2	19022.9	20229.8	17430.8	13723.0	10468.5
72.5°	1481.1	1480.0	1602.3	1885.6	2375.2	5236.5	15620.0	17563.4	16936.7	12530.9	8649.7
75°	1125.3	1143.4	1278.2	1595.5	2188.2	2861.3	10900.2	13525.8	13527.0	9897.3	5397.4
77.5°	811.4	822.7	980.2	1339.4	2061.3	2319.7	7260.4	9701.3	9120.0	4535.0	1696.4
80°	531.5	538.3	658.4	1060.7	1858.4	2188.2	4305.0	5937.9	4301.6	1203.5	560.9
82.5°	291.2	325.2	402.3	686.7	1491.3	2021.6	2616.5	3005.2	1613.7	536.0	292.4
85°	146.2	155.2	226.6	401.2	974.5	1672.6	1822.2	1723.6	832.9	266.3	151.8
87.5°	43.1	54.4	94.1	155.2	395.5	871.4	1014.2	910.0	320.7	96.3	31.7
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°	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0	5615.0
2.5°	5568.5	5548.1	5457.5	5375.9	5301.1	5221.8	5154.9	5096.0	5101.6	5102.8	5042.7
5°	5441.6	5395.1	5222.9	5062.0	4926.0	4753.8	4606.4	4511.2	4463.7	4400.2	4422.9
7.5°	5269.4	5179.8	4940.7	4673.3	4422.9	4199.6	3957.1	3790.5	3684.0	3580.9	3594.5
10°	5091.4	4947.5	4599.6	4246.1	3922.0	3565.0	3255.7	2990.5	2793.3	2719.7	2670.9
12.5°	4909.0	4719.8	4277.8	3807.5	3359.9	2932.7	2494.2	2209.7	1992.2	1876.6	1891.3
15°	4742.4	4512.4	3942.4	3369.0	2787.7	2278.9	1841.4	1570.6	1418.8	1387.0	1405.2
17.5°	4588.3	4286.9	3628.5	2942.9	2264.1	1708.9	1383.6	1230.6	1169.5	1152.5	1151.3
20°	4429.7	4095.4	3276.1	2487.4	1764.4	1324.7	1135.5	1064.1	1052.7	1059.5	1060.7
22.5°	4268.7	3858.5	2913.4	2035.2	1405.2	1083.3	992.7	973.4	982.5	998.3	1000.6
25°	4120.3	3650.0	2564.4	1638.6	1121.9	951.9	907.7	907.7	928.1	951.9	953.0
27.5°	3997.9	3448.3	2216.5	1300.9	939.4	856.7	842.0	849.9	878.2	896.4	897.5
30°	3897.1	3260.2	1887.9	1042.5	826.1	780.8	777.4	791.0	811.4	828.4	829.5
32.5°	3821.1	3094.8	1580.8	876.0	747.9	723.0	721.8	732.0	743.4	747.9	752.4
35°	3791.7	2957.6	1299.8	770.6	695.8	679.9	679.9	678.8	683.3	685.6	687.8
37.5°	3815.5	2852.3	1082.2	702.6	657.3	645.9	639.1	632.3	630.1	630.1	631.2
40°	3916.3	2796.7	920.2	658.4	630.1	613.1	600.6	592.7	584.7	587.0	589.3
42.5°	4130.5	2806.9	810.2	628.9	606.3	582.5	564.3	555.3	549.6	556.4	555.3
45°	4471.6	2908.9	740.0	608.5	582.5	551.9	534.9	525.8	525.8	536.0	539.4
47.5°	4948.7	3103.8	702.6	592.7	564.3	528.1	511.1	504.3	506.5	523.5	524.7
50°	5531.1	3442.6	695.8	584.7	555.3	511.1	491.8	485.0	490.7	508.8	511.1
52.5°	6173.6	3878.9	728.6	585.9	547.3	500.9	475.9	465.7	471.4	486.1	490.7
55°	6935.2	4425.1	813.6	590.4	536.0	495.2	464.6	441.9	448.7	458.9	460.1
57.5°	7712.5	5114.1	963.2	591.5	526.9	485.0	445.3	415.9	415.9	422.7	426.1
60°	8662.1	5864.3	1160.4	592.7	528.1	470.3	419.3	386.4	381.9	385.3	386.4
62.5°	9605.0	6492.1	1193.3	589.3	539.4	455.5	391.0	357.0	349.0	347.9	345.6
65°	10020.8	6375.4	977.9	573.4	551.9	446.5	368.3	328.6	315.0	310.5	310.5
67.5°	9343.2	5392.9	735.4	551.9	543.9	437.4	346.8	304.8	289.0	279.9	279.9
69°	8706.3	4796.8	660.7	537.1	523.5	422.7	333.2	292.4	273.1	262.9	259.5
70°	8214.5	4386.6	628.9	524.7	504.3	405.7	323.0	283.3	261.8	250.4	248.2
72.5°	6555.5	3441.5	550.7	477.1	429.5	341.1	286.7	255.0	234.6	222.1	218.7
75°	3778.1	1865.2	456.7	414.7	345.6	265.2	242.5	222.1	206.2	194.9	191.5
77.5°	1162.7	720.7	330.9	327.5	253.8	205.1	193.8	185.8	174.5	162.0	159.8
80°	489.5	367.2	224.4	221.0	168.8	142.8	139.4	138.2	133.7	123.5	120.1
82.5°	268.6	207.4	156.4	136.0	102.0	82.7	86.1	87.3	83.9	73.7	66.9
85°	131.5	113.3	75.9	61.2	46.5	29.5	28.3	34.0	31.7	22.7	24.9
87.5°	26.1	31.7	20.4	9.1	4.5	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)