

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: P455767

Luminaire Tested: **GALN-SA7A-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455767
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-SA7A-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 26403 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

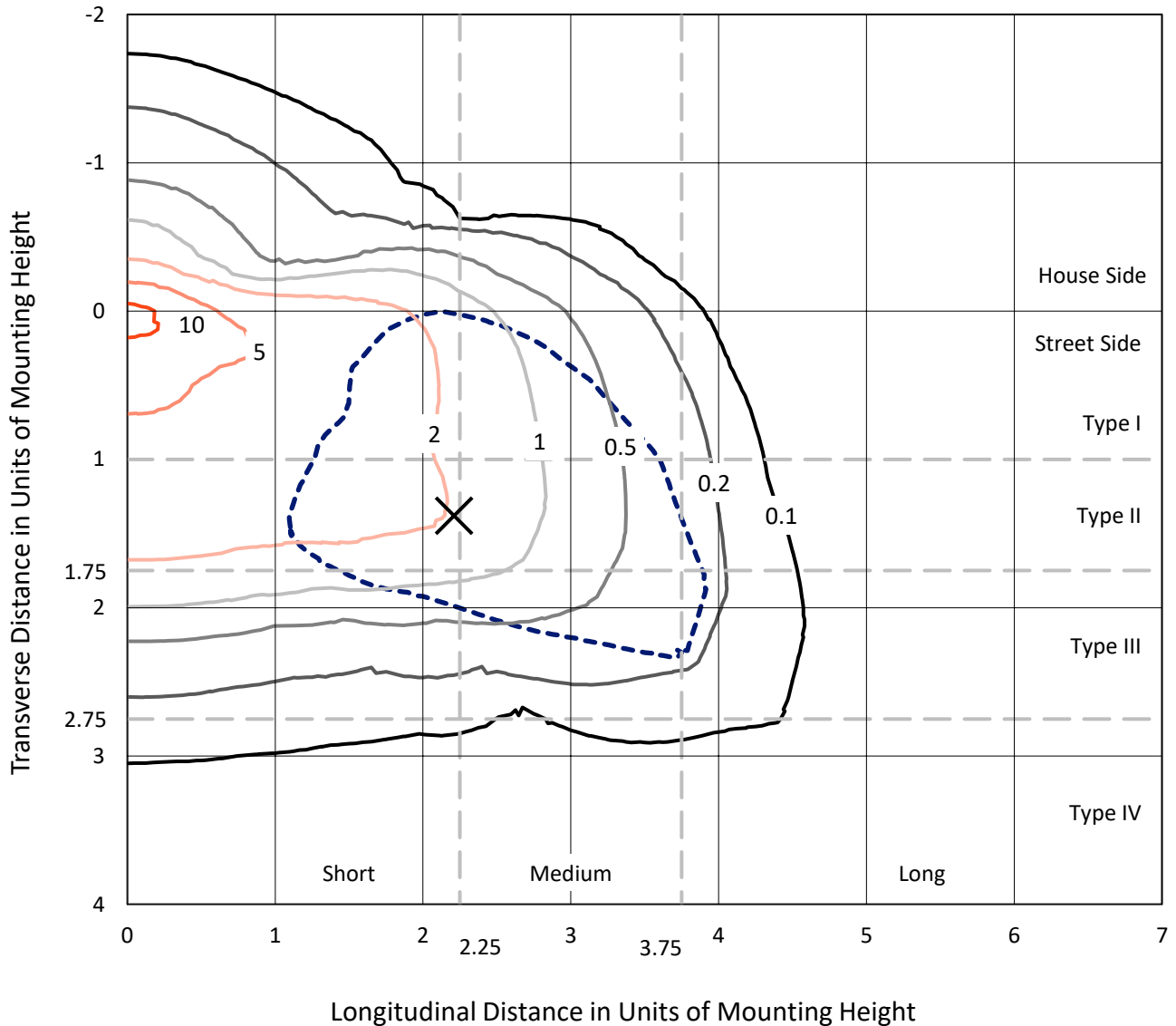
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

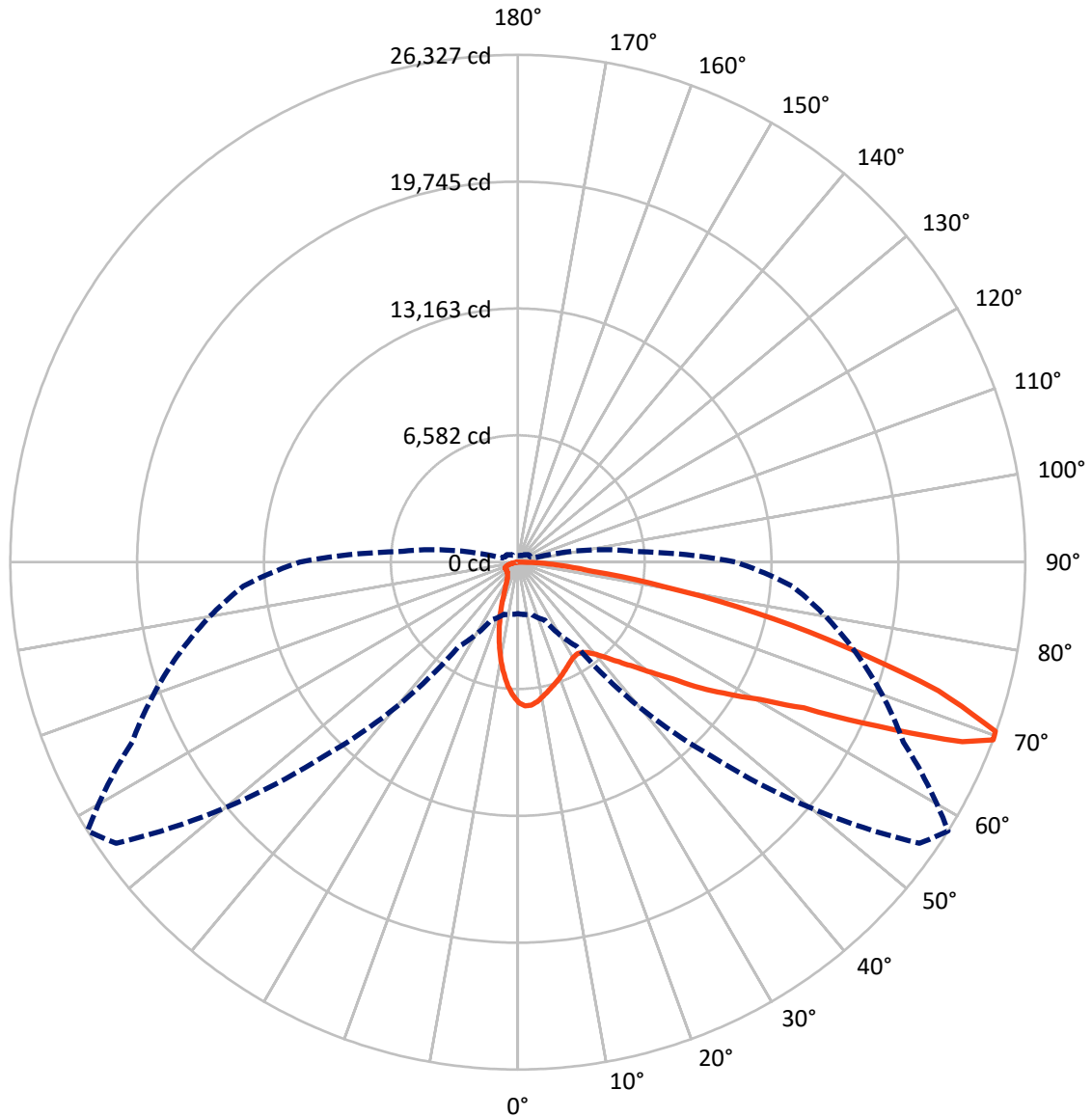
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	3869.4	0.0	3869.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	22533.6	0.0	22533.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	26403.0	0.0	26403.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	619.6	2.3
10°-20°	1360.6	5.2
20°-30°	1757.9	6.7
30°-40°	2283.2	8.6
40°-50°	3319.4	12.6
50°-60°	5296.7	20.1
60°-70°	7075.7	26.8
70°-80°	4078.9	15.4
80°-90°	610.9	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°	26403.0	100.0
0°-180°	26403.0	100.0



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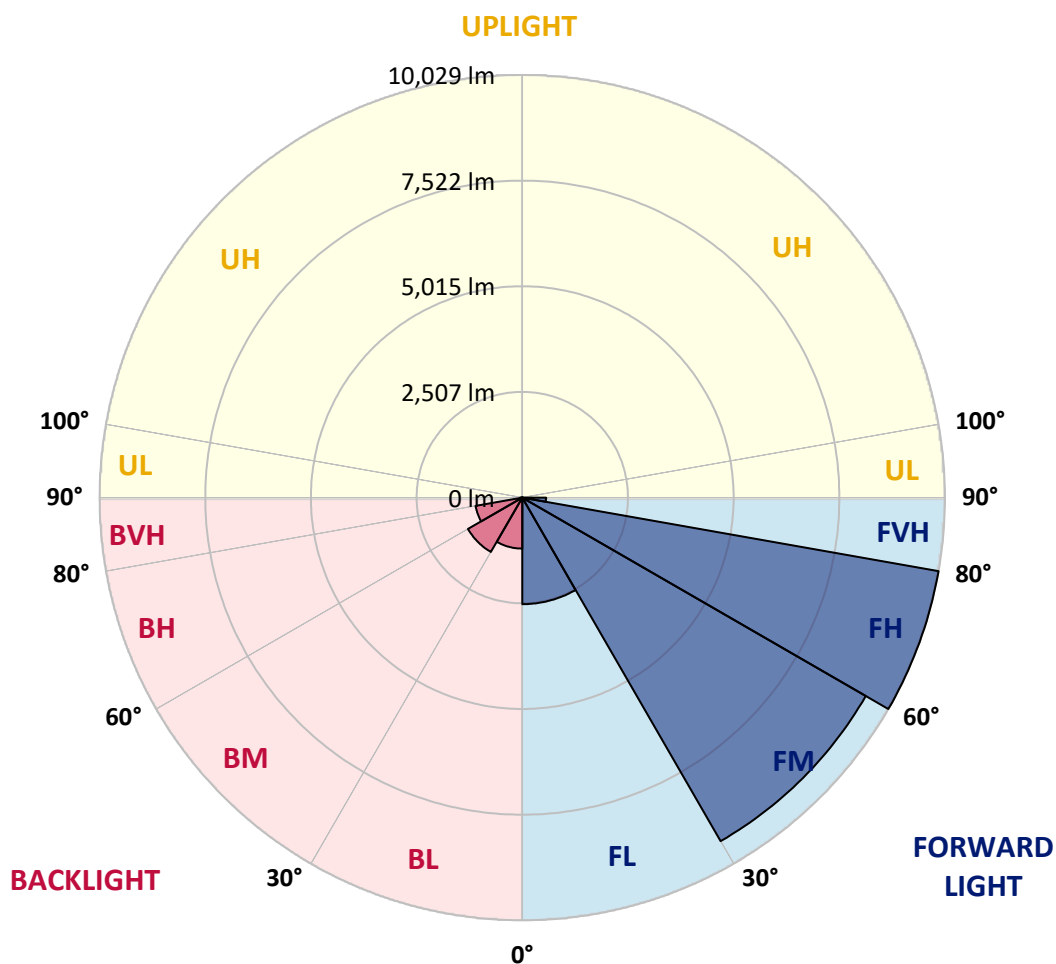
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2528.7	9.6			
FM	(30°-60°)	9411.3	35.6			
FH	(60°-80°)	10029.5	38.0			G4/12000
FVH	(80°-90°)	564.1	2.1			G4/750
BL	(0°-30°)	1209.4	4.6	B3/2500		
BM	(30°-60°)	1488.0	5.6	B2/2500		
BH	(60°-80°)	1125.1	4.3	B3/2500		G3/2500
BVH	(80°-90°)	46.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2
2.5°	7567.2	7587.8	7581.9	7574.5	7562.8	7530.4	7477.4	7468.5	7434.7	7362.5	7272.7
5°	7450.9	7468.5	7470.0	7480.3	7495.0	7489.1	7450.9	7446.4	7396.4	7299.2	7149.0
7.5°	7051.8	7075.4	7126.9	7184.3	7235.9	7284.5	7296.2	7303.6	7272.7	7160.8	6960.5
10°	6602.7	6626.3	6649.8	6735.2	6861.9	6982.6	7082.7	7096.0	7103.3	7000.3	6755.8
12.5°	6105.0	6153.6	6203.6	6330.3	6499.6	6689.6	6866.3	6894.3	6944.3	6866.3	6579.1
15°	5682.4	5732.4	5804.6	5918.0	6122.7	6396.5	6645.4	6691.0	6789.7	6749.9	6414.2
17.5°	5389.4	5407.0	5457.1	5586.7	5807.5	6096.2	6428.9	6520.2	6677.8	6667.5	6272.9
20°	5158.2	5180.3	5211.2	5290.7	5520.4	5825.2	6227.2	6345.0	6558.5	6593.9	6133.0
22.5°	5061.0	5077.2	5072.8	5115.5	5271.6	5577.8	6022.5	6162.4	6452.5	6543.8	6003.4
25°	5066.9	5081.6	5059.5	5049.2	5142.0	5359.9	5809.0	5987.2	6367.1	6509.9	5885.6
27.5°	5165.5	5175.8	5134.6	5093.4	5100.7	5224.4	5632.3	5829.6	6294.9	6524.7	5786.9
30°	5298.1	5317.2	5290.7	5240.6	5186.1	5192.0	5518.9	5713.3	6261.1	6576.2	5739.8
32.5°	5468.9	5486.5	5474.8	5435.0	5364.3	5286.3	5491.0	5670.6	6264.0	6680.7	5729.5
35°	5648.5	5683.9	5703.0	5700.1	5642.6	5507.2	5601.4	5750.1	6334.7	6856.0	5789.9
37.5°	5851.7	5881.2	5963.6	6016.6	5963.6	5806.1	5850.2	5953.3	6490.8	7109.2	5922.4
40°	6049.0	6093.2	6214.0	6378.9	6358.3	6219.8	6230.2	6297.9	6766.1	7486.2	6181.6
42.5°	6255.2	6308.2	6518.8	6763.2	6811.8	6704.3	6732.3	6792.6	7157.8	8008.9	6626.3
45°	6520.2	6583.6	6842.7	7147.5	7338.9	7272.7	7352.2	7381.6	7682.0	8689.2	7212.3
47.5°	6861.9	6935.5	7255.0	7634.9	7905.9	7966.2	8104.6	8087.0	8331.4	9494.7	7972.1
50°	7437.6	7478.8	7780.7	8168.0	8540.5	8812.9	8963.1	8991.1	9136.9	10278.1	8821.8
52.5°	8122.3	8159.1	8377.1	8715.7	9182.5	9759.7	10130.8	10039.5	10074.9	11232.2	9815.7
55°	8892.4	8954.3	9092.7	9318.0	9923.2	10772.8	11517.9	11540.0	11148.3	12145.2	10768.4
57.5°	9488.8	9593.3	9830.4	10151.4	10918.6	11899.3	12900.6	12915.3	12414.7	13120.0	11819.8
60°	9188.4	9312.1	9854.0	10635.9	12224.7	13865.1	14552.7	14468.8	13647.1	14230.3	13102.3
62.5°	7892.6	7914.7	8702.5	9924.7	12626.7	16495.0	17011.8	16656.9	15291.9	15638.0	14405.5
65°	5108.1	5252.4	5876.8	7589.3	11305.9	17954.2	21320.3	20500.2	17597.9	17235.6	15496.6
67.5°	3224.8	3188.0	3447.1	4333.6	7776.3	16668.7	24997.2	24867.6	20613.5	18244.3	15236.0
69°	2674.1	2715.3	2803.6	3322.0	5351.1	14231.7	25431.6	26326.8	22075.7	18164.8	14289.2
70°	2425.2	2444.4	2537.1	2945.0	4128.9	11919.9	24718.9	26287.1	22650.0	17832.0	13603.0
72.5°	1924.6	1923.1	2082.1	2450.2	3086.4	6804.4	20297.0	22822.3	22008.0	16282.9	11239.6
75°	1462.2	1485.8	1661.0	2073.3	2843.4	3718.1	14164.0	17575.8	17577.2	12860.8	7013.5
77.5°	1054.3	1069.0	1273.7	1740.5	2678.5	3014.2	9434.3	12606.1	11850.7	5892.9	2204.3
80°	690.6	699.4	855.5	1378.3	2414.9	2843.4	5594.0	7715.9	5589.6	1563.8	728.9
82.5°	378.4	422.6	522.7	892.3	1937.8	2626.9	3400.0	3905.1	2096.8	696.5	379.9
85°	190.0	201.7	294.5	521.3	1266.4	2173.4	2367.8	2239.7	1082.3	346.0	197.3
87.5°	56.0	70.7	122.2	201.7	513.9	1132.4	1317.9	1182.4	416.7	125.2	41.2
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°	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2	7296.2
2.5°	7235.9	7209.4	7091.6	6985.5	6888.4	6785.3	6698.4	6621.8	6629.2	6630.7	6552.6
5°	7071.0	7010.6	6786.8	6577.7	6401.0	6177.1	5985.7	5862.0	5800.2	5717.7	5747.2
7.5°	6847.1	6730.8	6420.1	6072.6	5747.2	5457.1	5142.0	4925.5	4787.1	4653.1	4670.8
10°	6615.9	6428.9	5976.9	5517.5	5096.3	4632.5	4230.5	3885.9	3629.7	3534.0	3470.7
12.5°	6378.9	6133.0	5558.7	4947.6	4366.0	3810.8	3241.0	2871.4	2588.7	2438.5	2457.6
15°	6162.4	5863.5	5122.8	4377.7	3622.4	2961.2	2392.8	2040.9	1843.6	1802.3	1825.9
17.5°	5962.2	5570.5	4714.9	3824.1	2942.1	2220.5	1797.9	1599.1	1519.6	1497.5	1496.1
20°	5756.0	5321.6	4257.0	3232.1	2292.7	1721.4	1475.4	1382.7	1368.0	1376.8	1378.3
22.5°	5546.9	5013.9	3785.8	2644.6	1825.9	1407.7	1289.9	1264.9	1276.7	1297.3	1300.2
25°	5354.0	4742.9	3332.3	2129.2	1457.8	1236.9	1179.5	1179.5	1206.0	1236.9	1238.4
27.5°	5195.0	4480.8	2880.2	1690.4	1220.7	1113.2	1094.1	1104.4	1141.2	1164.7	1166.2
30°	5063.9	4236.4	2453.2	1354.7	1073.5	1014.6	1010.1	1027.8	1054.3	1076.4	1077.9
32.5°	4965.3	4021.4	2054.1	1138.2	971.9	939.5	938.0	951.2	966.0	971.9	977.7
35°	4927.0	3843.2	1689.0	1001.3	904.1	883.5	883.5	882.0	887.9	890.9	893.8
37.5°	4957.9	3706.3	1406.2	913.0	854.1	839.3	830.5	821.7	818.7	818.7	820.2
40°	5089.0	3634.1	1195.7	855.5	818.7	796.6	780.4	770.1	759.8	762.8	765.7
42.5°	5367.3	3647.4	1052.8	817.2	787.8	756.9	733.3	721.5	714.2	723.0	721.5
45°	5810.5	3779.9	961.5	790.7	756.9	717.1	695.0	683.2	683.2	696.5	700.9
47.5°	6430.4	4033.2	913.0	770.1	733.3	686.2	664.1	655.3	658.2	680.3	681.8
50°	7187.3	4473.5	904.1	759.8	721.5	664.1	639.1	630.2	637.6	661.2	664.1
52.5°	8022.2	5040.4	946.8	761.3	711.2	650.8	618.5	605.2	612.6	631.7	637.6
55°	9011.7	5750.1	1057.3	767.2	696.5	643.5	603.7	574.3	583.1	596.4	597.8
57.5°	10021.8	6645.4	1251.6	768.6	684.7	630.2	578.7	540.4	540.4	549.2	553.7
60°	11255.8	7620.2	1507.8	770.1	686.2	611.1	544.8	502.1	496.2	500.7	502.1
62.5°	12480.9	8436.0	1550.5	765.7	700.9	591.9	508.0	463.8	453.5	452.1	449.1
65°	13021.3	8284.3	1270.8	745.1	717.1	580.2	478.6	427.0	409.4	403.5	403.5
67.5°	12140.8	7007.6	955.7	717.1	706.8	568.4	450.6	396.1	375.5	363.7	363.7
69°	11313.2	6233.1	858.5	698.0	680.3	549.2	432.9	379.9	354.9	341.6	337.2
70°	10674.2	5700.1	817.2	681.8	655.3	527.2	419.7	368.1	340.1	325.4	322.5
72.5°	8518.4	4472.0	715.6	619.9	558.1	443.2	372.5	331.3	304.8	288.6	284.2
75°	4909.3	2423.7	593.4	538.9	449.1	344.6	315.1	288.6	268.0	253.3	248.9
77.5°	1510.8	936.5	430.0	425.6	329.8	266.5	251.8	241.5	226.8	210.6	207.6
80°	636.1	477.1	291.6	287.1	219.4	185.5	181.1	179.6	173.8	160.5	156.1
82.5°	349.0	269.5	203.2	176.7	132.5	107.5	111.9	113.4	109.0	95.7	86.9
85°	170.8	147.3	98.7	79.5	60.4	38.3	36.8	44.2	41.2	29.5	32.4
87.5°	33.9	41.2	26.5	11.8	5.9	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)