

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: P458928

Luminaire Tested: **GALN-SA4C-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458928
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-SA4C-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA 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: 25679 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

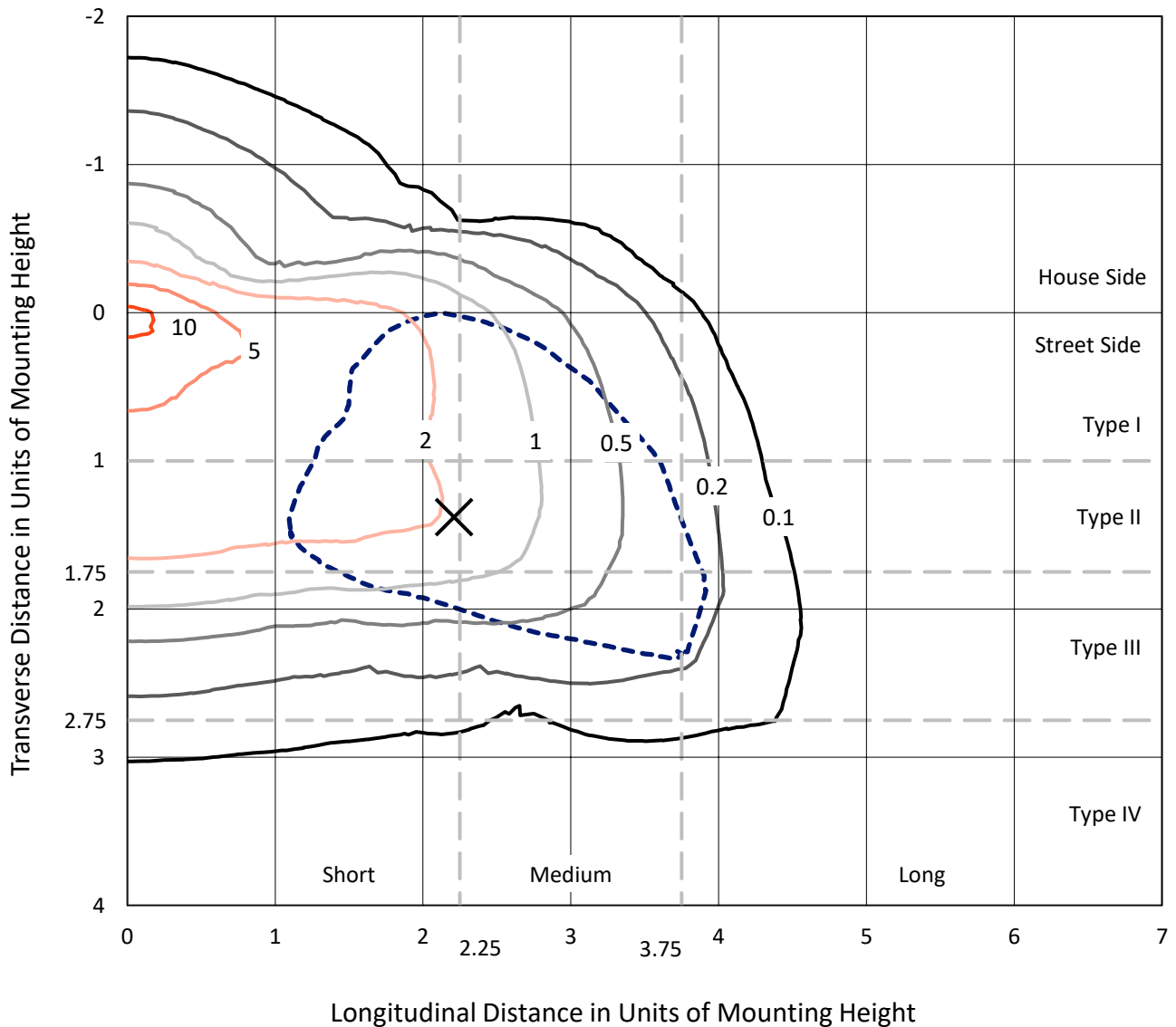
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

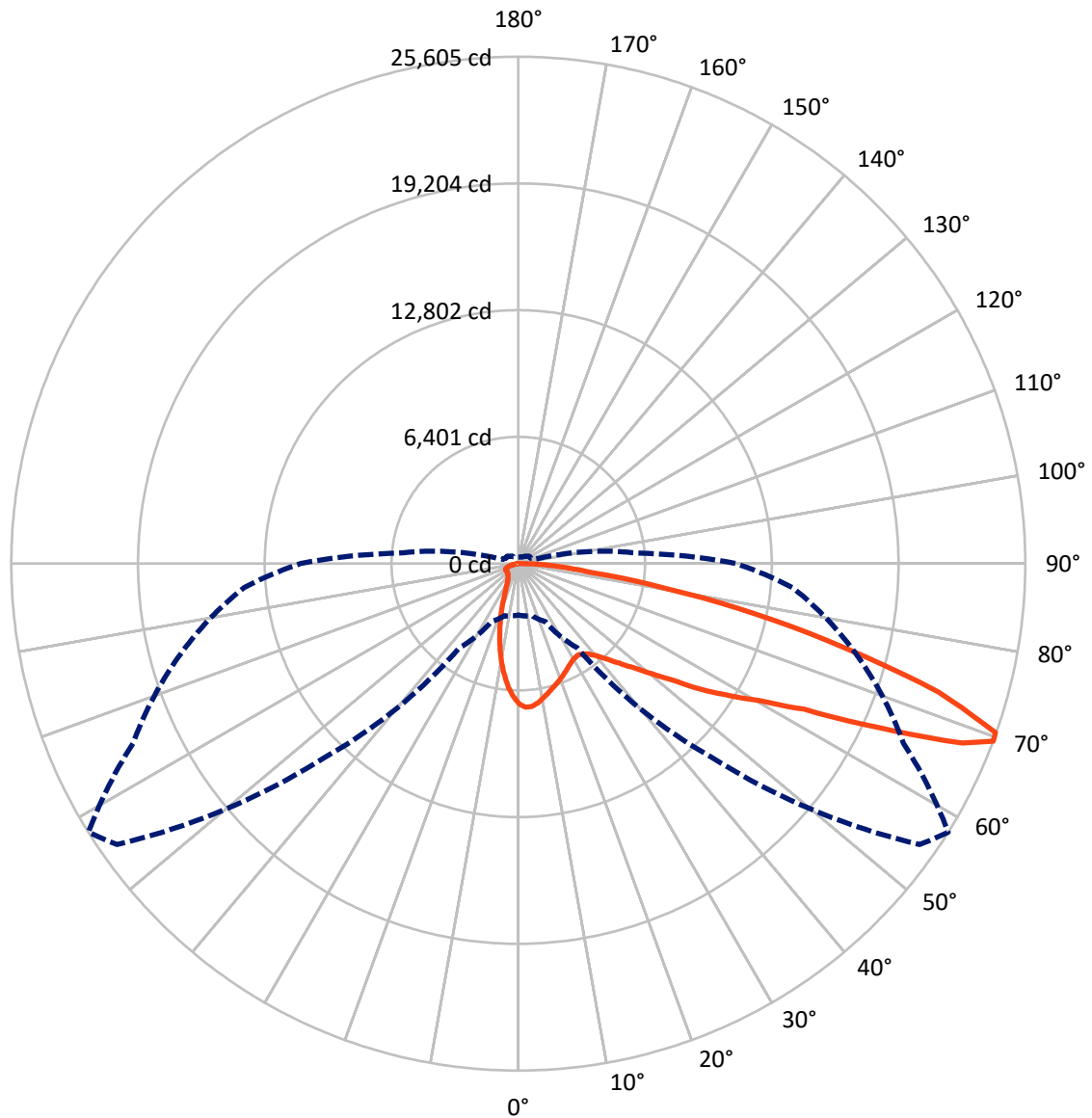
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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	3763.3	0.0	3763.3
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	21915.7	0.0	21915.7
	% Fixture	85.3	0.0	85.3
Total	Lumens	25679.0	0.0	25679.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.6	2.3
10°-20°	1323.3	5.2
20°-30°	1709.7	6.7
30°-40°	2220.6	8.6
40°-50°	3228.4	12.6
50°-60°	5151.5	20.1
60°-70°	6881.7	26.8
70°-80°	3967.0	15.4
80°-90°	594.2	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°	25679.0	100.0
0°-180°	25679.0	100.0



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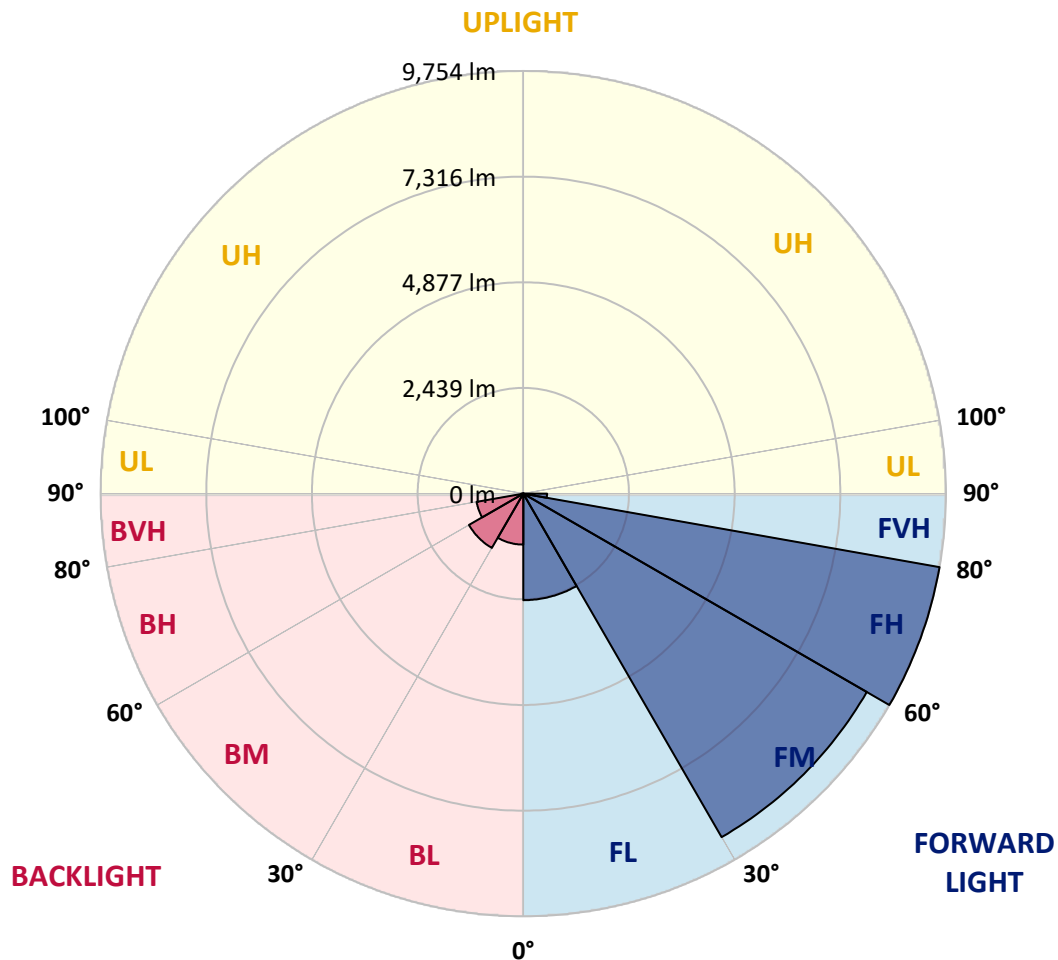
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2459.4	9.6			
FM	(30°-60°)	9153.2	35.6			
FH	(60°-80°)	9754.5	38.0			G4/12000
FVH	(80°-90°)	548.7	2.1			G4/750
BL	(0°-30°)	1176.2	4.6	B3/2500		
BM	(30°-60°)	1447.2	5.6	B2/2500		
BH	(60°-80°)	1094.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	45.5	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°	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2
2.5°	7359.7	7379.7	7374.0	7366.8	7355.4	7323.9	7272.3	7263.7	7230.8	7160.6	7073.3
5°	7246.5	7263.7	7265.2	7275.2	7289.5	7283.8	7246.5	7242.2	7193.6	7099.0	6953.0
7.5°	6858.4	6881.4	6931.5	6987.3	7037.5	7084.7	7096.2	7103.3	7073.3	6964.4	6769.6
10°	6421.6	6444.6	6467.5	6550.5	6673.7	6791.1	6888.5	6901.4	6908.6	6808.3	6570.6
12.5°	5937.6	5984.8	6033.5	6156.7	6321.4	6506.1	6678.0	6705.2	6753.9	6678.0	6398.7
15°	5526.6	5575.3	5645.4	5755.7	5954.8	6221.1	6463.2	6507.6	6603.5	6564.9	6238.3
17.5°	5241.6	5258.8	5307.4	5433.5	5648.3	5929.0	6252.7	6341.4	6494.7	6484.7	6100.8
20°	5016.7	5038.2	5068.3	5145.6	5369.0	5665.5	6056.5	6171.0	6378.7	6413.0	5964.8
22.5°	4922.2	4938.0	4933.7	4975.2	5127.0	5424.9	5857.4	5993.4	6275.6	6364.4	5838.8
25°	4927.9	4942.3	4920.8	4910.8	5001.0	5212.9	5649.7	5823.0	6192.5	6331.4	5724.2
27.5°	5023.9	5033.9	4993.8	4953.7	4960.9	5081.2	5477.9	5669.8	6122.3	6345.7	5628.2
30°	5152.8	5171.4	5145.6	5096.9	5043.9	5049.7	5367.6	5556.6	6089.4	6395.9	5582.4
32.5°	5318.9	5336.1	5324.6	5286.0	5217.2	5141.3	5340.4	5515.1	6092.3	6497.5	5572.4
35°	5493.6	5528.0	5546.6	5543.8	5487.9	5356.1	5447.8	5592.4	6161.0	6668.0	5631.1
37.5°	5691.3	5719.9	5800.1	5851.7	5800.1	5646.9	5689.8	5790.1	6312.8	6914.3	5760.0
40°	5883.2	5926.1	6043.6	6204.0	6183.9	6049.3	6059.3	6125.2	6580.6	7280.9	6012.1
42.5°	6083.7	6135.2	6340.0	6577.7	6625.0	6520.5	6547.7	6606.4	6961.6	7789.3	6444.6
45°	6341.4	6403.0	6655.1	6951.5	7137.7	7073.3	7150.6	7179.2	7471.4	8451.0	7014.5
47.5°	6673.7	6745.3	7056.1	7425.6	7689.1	7747.8	7882.4	7865.2	8103.0	9234.3	7753.5
50°	7233.7	7273.8	7567.3	7944.0	8306.3	8571.3	8717.3	8744.5	8886.3	9996.2	8579.9
52.5°	7899.6	7935.4	8147.4	8476.7	8930.7	9492.1	9853.0	9764.2	9798.6	10924.2	9546.5
55°	8648.6	8708.7	8843.4	9062.5	9651.1	10477.4	11202.1	11223.6	10842.6	11812.2	10473.1
57.5°	9228.6	9330.3	9560.9	9873.1	10619.2	11573.0	12546.8	12561.2	12074.2	12760.2	11495.7
60°	8936.5	9056.7	9583.8	10344.2	11889.5	13484.9	14153.7	14072.0	13272.9	13840.0	12743.0
62.5°	7676.2	7697.7	8463.9	9652.5	12280.5	16042.6	16545.3	16200.2	14872.6	15209.2	14010.5
65°	4968.0	5108.4	5715.6	7381.2	10995.8	17461.9	20735.7	19938.0	17115.3	16763.0	15071.7
67.5°	3136.4	3100.5	3352.6	4214.7	7563.0	16211.6	24311.7	24185.7	20048.3	17744.0	14818.2
69°	2600.7	2640.8	2726.8	3230.9	5204.3	13841.5	24734.2	25604.9	21470.4	17666.7	13897.3
70°	2358.7	2377.3	2467.5	2864.2	4015.7	11593.0	24041.1	25566.3	22028.9	17343.0	13230.0
72.5°	1871.8	1870.4	2025.0	2383.1	3001.7	6617.8	19740.4	22196.5	21404.5	15836.4	10931.4
75°	1422.1	1445.0	1615.4	2016.4	2765.4	3616.1	13775.6	17093.8	17095.3	12508.2	6821.2
77.5°	1025.4	1039.7	1238.8	1692.8	2605.0	2931.6	9175.6	12260.4	11525.7	5731.4	2143.9
80°	671.7	680.3	832.1	1340.5	2348.7	2765.4	5440.6	7504.3	5436.3	1520.9	708.9
82.5°	368.1	411.0	508.4	867.9	1884.7	2554.9	3306.8	3798.0	2039.3	677.4	369.5
85°	184.7	196.2	286.4	507.0	1231.6	2113.8	2302.9	2178.3	1052.6	336.5	191.9
87.5°	54.4	68.7	118.9	196.2	499.8	1101.3	1281.8	1150.0	405.3	121.7	40.1
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°	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2	7096.2
2.5°	7037.5	7011.7	6897.1	6794.0	6699.5	6599.2	6514.7	6440.3	6447.4	6448.9	6372.9
5°	6877.1	6818.3	6600.7	6397.3	6225.4	6007.8	5821.6	5701.3	5641.1	5560.9	5589.6
7.5°	6659.4	6546.2	6244.1	5906.1	5589.6	5307.4	5001.0	4790.5	4655.8	4525.5	4542.7
10°	6434.5	6252.7	5813.0	5366.2	4956.6	4505.5	4114.5	3779.4	3530.2	3437.1	3375.5
12.5°	6204.0	5964.8	5406.3	4811.9	4246.2	3706.3	3152.1	2792.6	2517.7	2371.6	2390.2
15°	5993.4	5702.7	4982.4	4257.7	3523.0	2880.0	2327.2	1984.9	1793.0	1752.9	1775.8
17.5°	5798.7	5417.7	4585.7	3719.2	2861.4	2159.6	1748.6	1555.3	1478.0	1456.5	1455.0
20°	5598.2	5175.7	4140.3	3143.5	2229.8	1674.2	1435.0	1344.8	1330.4	1339.0	1340.5
22.5°	5394.8	4876.4	3682.0	2572.1	1775.8	1369.1	1254.5	1230.2	1241.7	1261.7	1264.6
25°	5207.2	4612.9	3240.9	2070.9	1417.8	1203.0	1147.1	1147.1	1172.9	1203.0	1204.4
27.5°	5052.5	4358.0	2801.2	1644.1	1187.2	1082.7	1064.1	1074.1	1109.9	1132.8	1134.2
30°	4925.1	4120.2	2385.9	1317.6	1044.0	986.7	982.4	999.6	1025.4	1046.9	1048.3
32.5°	4829.1	3911.1	1997.8	1107.0	945.2	913.7	912.3	925.2	939.5	945.2	950.9
35°	4791.9	3737.8	1642.6	973.8	879.3	859.3	859.3	857.8	863.6	866.4	869.3
37.5°	4822.0	3604.7	1367.7	887.9	830.6	816.3	807.7	799.1	796.3	796.3	797.7
40°	4949.4	3534.5	1162.9	832.1	796.3	774.8	759.0	749.0	739.0	741.8	744.7
42.5°	5220.1	3547.4	1024.0	794.8	766.2	736.1	713.2	701.7	694.6	703.2	701.7
45°	5651.2	3676.3	935.2	769.1	736.1	697.4	676.0	664.5	664.5	677.4	681.7
47.5°	6254.1	3922.6	887.9	749.0	713.2	667.4	645.9	637.3	640.2	661.6	663.1
50°	6990.2	4350.8	879.3	739.0	701.7	645.9	621.5	612.9	620.1	643.0	645.9
52.5°	7802.2	4902.2	920.9	740.4	691.7	633.0	601.5	588.6	595.8	614.4	620.1
55°	8764.6	5592.4	1028.3	746.1	677.4	625.8	587.2	558.5	567.1	580.0	581.4
57.5°	9747.0	6463.2	1217.3	747.6	665.9	612.9	562.8	525.6	525.6	534.2	538.5
60°	10947.2	7411.2	1466.5	749.0	667.4	594.3	529.9	488.4	482.6	486.9	488.4
62.5°	12138.7	8204.6	1508.0	744.7	681.7	575.7	494.1	451.1	441.1	439.7	436.8
65°	12664.3	8057.1	1235.9	724.7	697.4	564.3	465.4	415.3	398.1	392.4	392.4
67.5°	11807.9	6815.5	929.4	697.4	687.4	552.8	438.2	385.2	365.2	353.7	353.7
69°	11003.0	6062.2	834.9	678.8	661.6	534.2	421.0	369.5	345.1	332.3	328.0
70°	10381.5	5543.8	794.8	663.1	637.3	512.7	408.2	358.0	330.8	316.5	313.6
72.5°	8284.8	4349.4	696.0	602.9	542.8	431.1	362.3	322.2	296.4	280.7	276.4
75°	4774.7	2357.3	577.1	524.2	436.8	335.1	306.5	280.7	260.6	246.3	242.0
77.5°	1469.4	910.8	418.2	413.9	320.8	259.2	244.9	234.9	220.5	204.8	201.9
80°	618.7	464.0	283.6	279.3	213.4	180.4	176.2	174.7	169.0	156.1	151.8
82.5°	339.4	262.1	197.6	171.9	128.9	104.5	108.8	110.3	106.0	93.1	84.5
85°	166.1	143.2	96.0	77.3	58.7	37.2	35.8	43.0	40.1	28.6	31.5
87.5°	32.9	40.1	25.8	11.5	5.7	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)