

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: P459046

Luminaire Tested: **GALN-SA5C-735-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32103 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

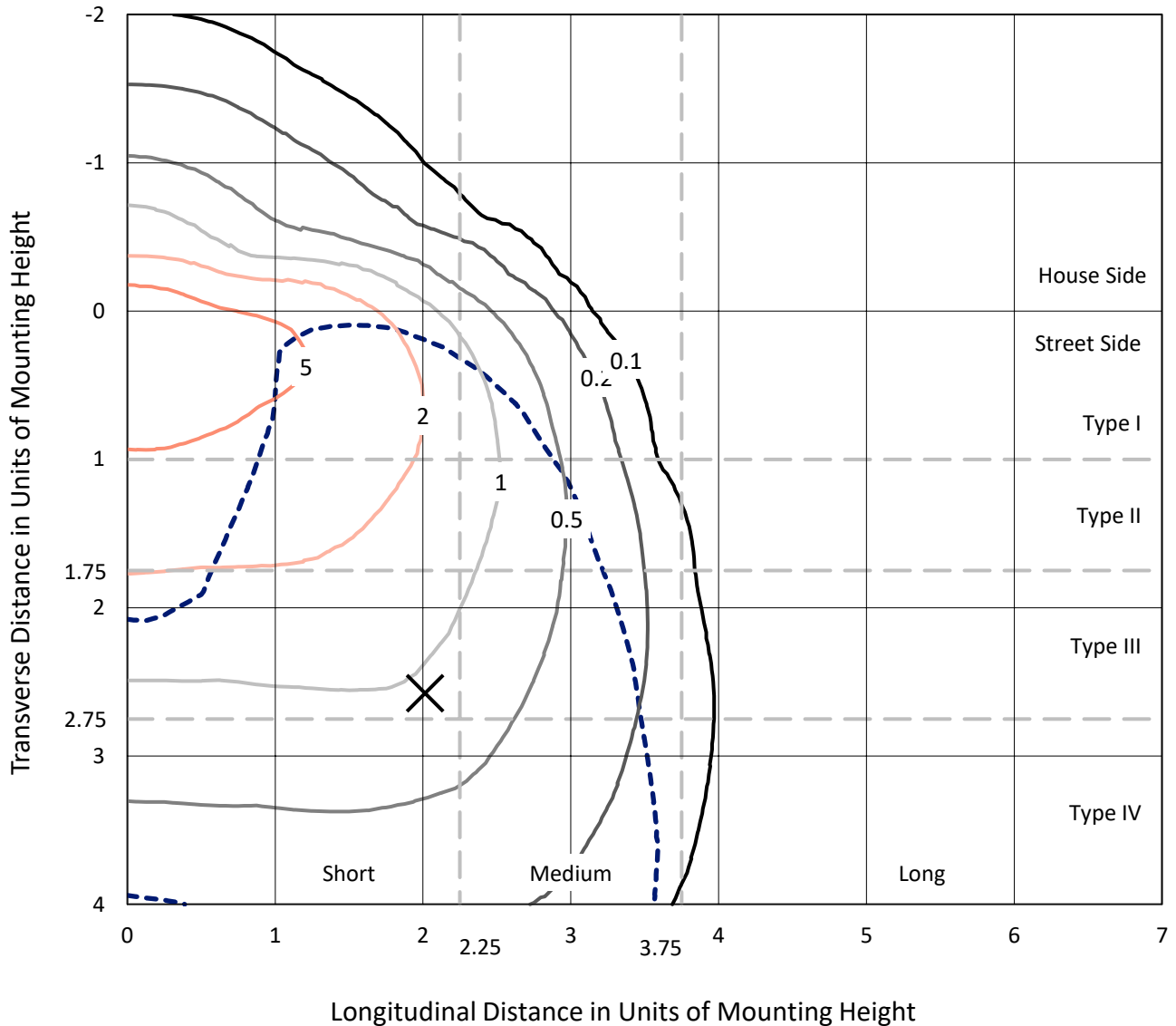
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

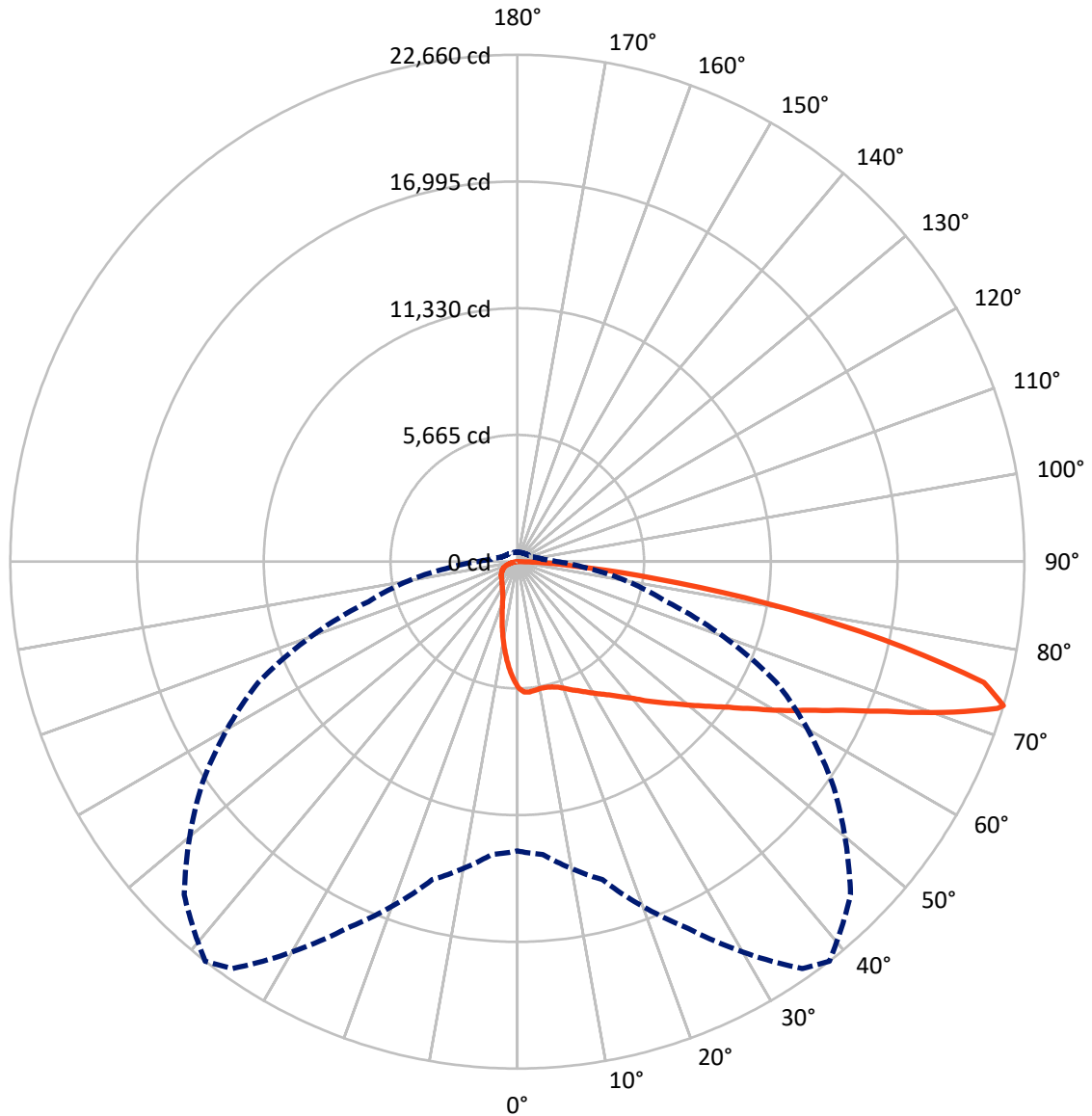
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4315.6	0.0	4315.6
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	27787.4	0.0	27787.4
	% Fixture	86.6	0.0	86.6
Total	Lumens	32103.0	0.0	32103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.3	1.5
10°-20°	1262.4	3.9
20°-30°	1965.9	6.1
30°-40°	2883.4	9.0
40°-50°	4277.3	13.3
50°-60°	6060.0	18.9
60°-70°	7687.3	23.9
70°-80°	6399.1	19.9
80°-90°	1075.2	3.3
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°	32103.0	100.0
0°-180°	32103.0	100.0

Coefficient of Utilization



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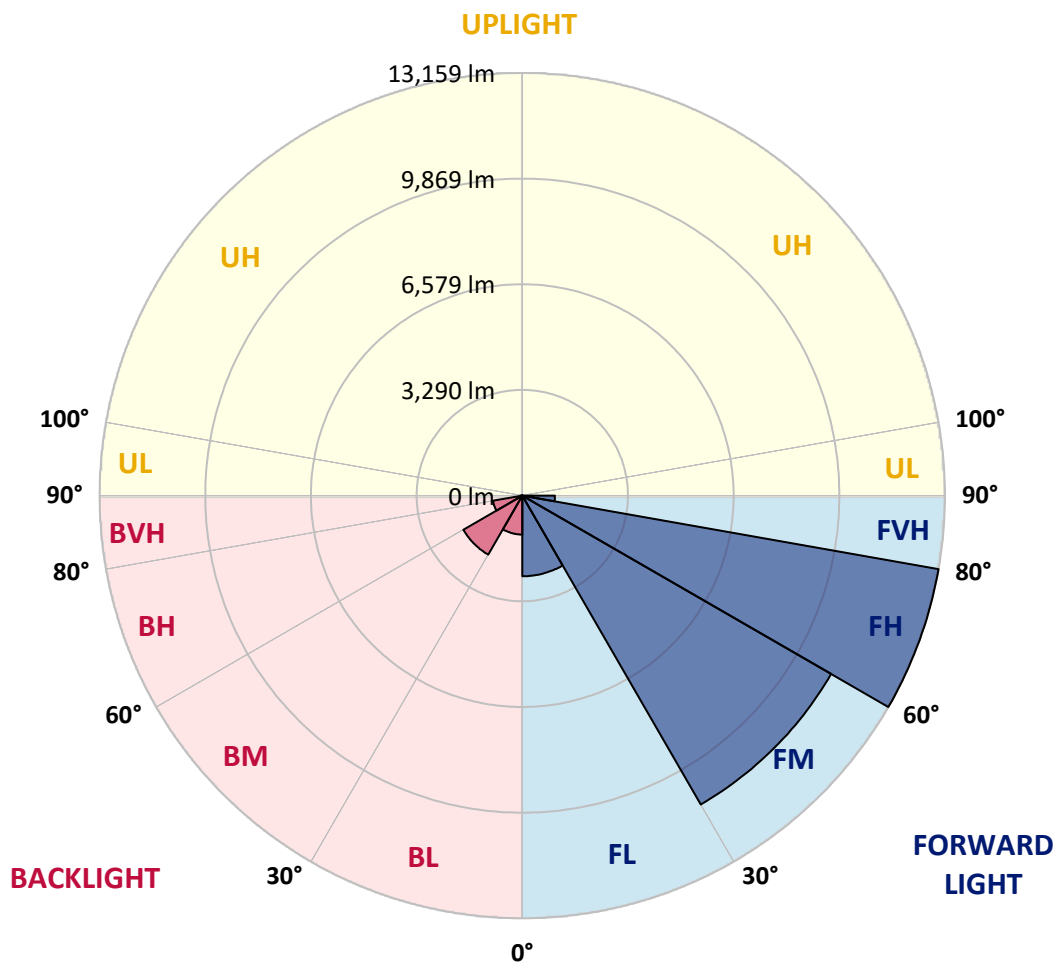
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2509.6	7.8			
FM	(30°-60°)	11102.1	34.6			
FH	(60°-80°)	13158.9	41.0			G5
FVH	(80°-90°)	1016.9	3.2			G5
BL	(0°-30°)	1211.0	3.8	B3/2500		
BM	(30°-60°)	2118.7	6.6	B2/2500		
BH	(60°-80°)	927.6	2.9	B2/1000		G2/1000
BVH	(80°-90°)	58.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0
2.5°	5866.6	5895.6	5881.1	5861.1	5848.4	5835.7	5817.6	5765.0	5723.3	5678.0	5607.3
5°	5910.1	5928.2	5915.5	5890.1	5861.1	5848.4	5814.0	5745.1	5678.0	5601.9	5496.7
7.5°	5884.7	5891.9	5877.4	5846.6	5821.2	5797.7	5757.8	5681.6	5600.1	5507.6	5369.8
10°	5794.1	5821.2	5821.2	5795.9	5770.5	5757.8	5717.9	5645.4	5571.1	5465.9	5302.8
12.5°	5719.7	5748.7	5772.3	5765.0	5763.2	5763.2	5732.4	5678.0	5591.0	5491.3	5297.3
15°	5669.0	5703.4	5754.2	5783.2	5801.3	5806.7	5794.1	5746.9	5658.1	5542.1	5319.1
17.5°	5658.1	5699.8	5792.2	5855.7	5902.8	5901.0	5897.4	5832.1	5734.2	5614.6	5346.3
20°	5707.0	5761.4	5890.1	5989.8	6058.7	6046.0	6026.1	5940.9	5826.7	5692.5	5371.6
22.5°	5853.9	5910.1	6051.5	6160.3	6227.3	6227.3	6167.5	6055.1	5933.6	5783.2	5406.1
25°	6064.2	6125.8	6276.3	6386.9	6417.7	6394.1	6334.3	6198.3	6058.7	5913.7	5478.6
27.5°	6321.6	6395.9	6535.5	6628.0	6618.9	6600.8	6539.2	6365.1	6225.5	6093.2	5601.9
30°	6642.5	6696.9	6841.9	6863.7	6831.0	6827.4	6740.4	6566.3	6435.8	6334.3	5777.7
32.5°	6945.2	6994.2	7110.2	7119.3	7061.3	7068.5	6986.9	6827.4	6753.1	6716.8	6073.2
35°	7266.1	7291.5	7391.2	7380.3	7342.3	7336.8	7304.2	7151.9	7175.5	7240.7	6492.0
37.5°	7534.4	7585.2	7641.4	7650.5	7648.7	7666.8	7688.5	7616.0	7752.0	7956.8	7041.3
40°	7781.0	7824.5	7907.9	7936.9	8007.6	8043.9	8118.2	8120.0	8433.6	8770.8	7717.5
42.5°	7947.8	8022.1	8178.0	8230.6	8402.8	8511.6	8622.2	8740.0	9195.1	9628.3	8515.2
45°	8092.8	8190.7	8450.0	8613.1	8847.0	8979.3	9213.2	9459.7	10114.2	10681.6	9325.6
47.5°	8312.2	8399.2	8696.5	8984.8	9338.3	9490.6	9840.5	10208.5	11064.2	11686.0	10101.5
50°	8616.7	8669.3	8972.1	9441.6	9893.0	10088.8	10551.1	11082.3	12079.4	12677.7	10783.2
52.5°	9006.5	9028.3	9269.4	9894.8	10489.5	10732.4	11345.2	11965.2	12967.7	13538.8	11323.4
55°	9467.0	9430.7	9619.3	10375.3	11171.1	11488.4	12146.5	12858.9	13966.6	14234.9	11716.8
57.5°	9922.0	9865.8	10016.3	10959.0	12012.3	12394.8	13161.7	13779.9	14858.6	14885.8	11992.4
60°	10404.3	10362.6	10542.1	11644.3	13043.9	13497.1	14205.9	14735.3	15721.5	15339.0	12035.9
62.5°	10899.2	10832.1	11087.7	12414.8	14205.9	14617.5	15304.6	15750.5	16568.2	15507.6	11617.1
65°	11379.6	11348.8	11744.0	13330.3	15529.4	15997.1	16664.2	16967.0	17246.2	15253.8	10578.3
67.5°	11890.9	11952.5	12583.4	14552.2	17255.2	17842.6	18562.4	18277.7	17440.2	14051.8	8908.6
70°	12670.4	12710.3	13685.6	16153.0	19479.7	20188.5	20536.6	18743.6	16504.7	11769.4	6696.9
72.5°	13005.8	13181.6	14670.0	17833.6	22006.9	22440.2	21200.1	17704.8	13749.1	7994.9	3518.9
73°	12931.5	13141.8	14715.4	18089.2	22204.5	22659.5	21058.7	17170.0	12781.0	6885.4	3016.7
75°	12005.1	12264.3	14126.2	17875.3	21820.1	21548.2	18785.3	14633.8	8636.7	3130.9	1374.2
77.5°	9472.4	9546.8	11192.9	14434.4	17182.7	16678.7	14059.1	9146.1	3527.9	1163.9	779.5
80°	4751.6	5025.4	6308.9	8268.7	11490.2	11325.2	8874.2	4325.6	1470.3	683.5	516.7
82.5°	2286.1	2480.1	3072.9	4031.9	6348.8	6198.3	4394.5	2364.0	933.6	398.8	304.6
85°	1472.1	1617.1	1956.1	1923.5	2610.6	2492.7	1974.3	1789.3	552.9	208.5	212.1
87.5°	971.7	1064.2	1276.3	1020.7	950.0	859.3	872.0	1008.0	108.8	79.8	29.0
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°	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0	5640.0
2.5°	5578.3	5554.7	5476.8	5400.6	5328.1	5259.2	5213.9	5154.1	5114.2	5125.1	5141.4
5°	5438.7	5386.1	5248.4	5114.2	4987.3	4836.8	4715.4	4617.5	4543.1	4516.0	4510.5
7.5°	5291.9	5203.0	5005.4	4775.2	4559.5	4372.7	4157.0	4050.0	3924.9	3881.4	3866.9
10°	5203.0	5083.4	4806.0	4485.1	4160.6	3850.6	3616.7	3426.4	3254.2	3221.5	3205.2
12.5°	5177.7	5019.9	4646.5	4233.1	3801.7	3421.0	3074.7	2824.5	2657.7	2619.7	2563.5
15°	5163.2	4967.4	4497.8	3979.3	3431.8	2967.7	2603.3	2311.5	2159.2	2057.6	2059.5
17.5°	5150.5	4907.5	4331.0	3702.0	3112.8	2578.0	2175.5	1912.6	1773.0	1718.6	1713.2
20°	5132.3	4836.8	4138.9	3410.1	2748.4	2222.6	1858.2	1662.4	1568.2	1522.8	1521.0
22.5°	5125.1	4767.9	3950.3	3112.8	2425.7	1948.9	1647.9	1510.2	1450.3	1419.5	1419.5
25°	5143.2	4719.0	3752.7	2829.9	2139.2	1715.0	1502.9	1408.6	1374.2	1357.9	1352.4
27.5°	5199.4	4697.2	3556.9	2547.1	1876.4	1555.5	1405.0	1339.7	1314.4	1301.7	1303.5
30°	5306.4	4695.4	3364.8	2267.9	1680.6	1434.0	1327.0	1281.7	1261.8	1254.5	1252.7
32.5°	5478.6	4735.3	3176.2	2037.7	1515.6	1332.5	1254.5	1221.9	1212.8	1207.4	1205.6
35°	5770.5	4847.7	2989.5	1827.4	1388.7	1241.8	1185.6	1169.3	1156.6	1162.1	1163.9
37.5°	6163.9	5041.7	2811.8	1662.4	1292.6	1174.8	1127.6	1113.1	1105.9	1111.3	1116.8
40°	6691.4	5320.9	2663.2	1530.1	1223.7	1118.6	1076.9	1064.2	1056.9	1066.0	1067.8
42.5°	7273.4	5643.6	2539.9	1426.8	1167.5	1071.4	1031.5	1017.0	1011.6	1017.0	1018.9
45°	7871.6	6018.9	2476.4	1352.4	1120.4	1037.0	995.3	979.0	966.3	962.7	968.1
47.5°	8460.8	6345.2	2474.6	1307.1	1082.3	1006.2	960.8	942.7	926.4	917.3	915.5
50°	8941.3	6604.4	2518.1	1287.2	1049.7	971.7	926.4	908.3	886.5	868.4	872.0
52.5°	9303.8	6773.0	2538.1	1278.1	1031.5	935.5	890.1	873.8	848.4	824.9	824.9
55°	9537.7	6812.9	2489.1	1269.0	1017.0	897.4	848.4	833.9	808.6	785.0	785.0
57.5°	9617.5	6689.6	2313.3	1247.3	1002.5	864.8	806.7	794.1	774.1	750.5	746.9
60°	9432.6	6272.7	2005.1	1182.0	973.5	830.3	761.4	756.0	748.7	728.8	727.0
62.5°	8720.1	5388.0	1669.7	1096.8	924.6	794.1	719.7	728.8	734.2	723.3	721.5
65°	7534.4	4374.5	1426.8	979.0	859.3	743.3	674.4	698.0	712.5	712.5	708.8
67.5°	6111.3	3359.3	1202.0	877.4	777.7	674.4	623.6	641.8	652.6	649.0	658.1
70°	4343.7	2275.2	979.0	761.4	674.4	596.4	558.4	558.4	551.1	547.5	547.5
72.5°	2106.6	1299.9	794.1	636.3	574.7	509.4	478.6	465.9	451.4	449.6	440.5
73°	1760.3	1165.7	757.8	612.8	551.1	496.7	462.3	442.3	433.3	426.0	424.2
75°	1071.4	884.7	632.7	516.7	469.5	427.8	397.0	378.9	369.8	364.4	362.6
77.5°	705.2	659.9	491.3	395.2	359.0	333.6	320.9	302.8	297.3	290.1	290.1
80°	525.7	504.0	351.7	279.2	257.4	235.7	232.1	228.4	213.9	204.9	201.2
82.5°	339.0	359.0	239.3	186.7	163.2	145.0	146.8	152.3	137.8	125.1	121.5
85°	241.1	259.2	145.0	85.2	68.9	59.8	67.1	59.8	61.6	48.9	39.9
87.5°	39.9	68.9	25.4	10.9	5.4	3.6	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)