

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: P455566

Luminaire Tested: **GALN-SA6D-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455566
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-SA6D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 40893 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

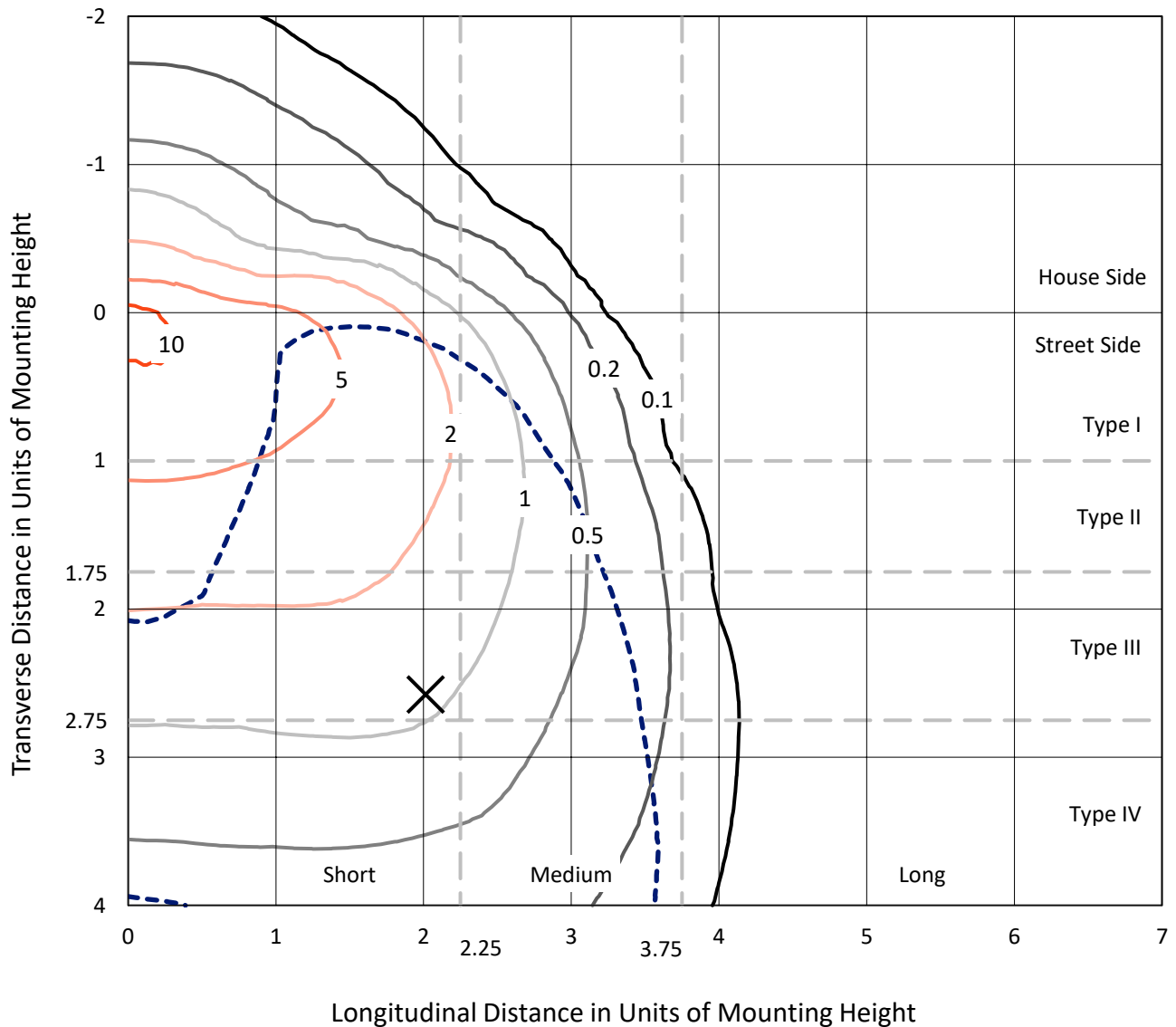
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

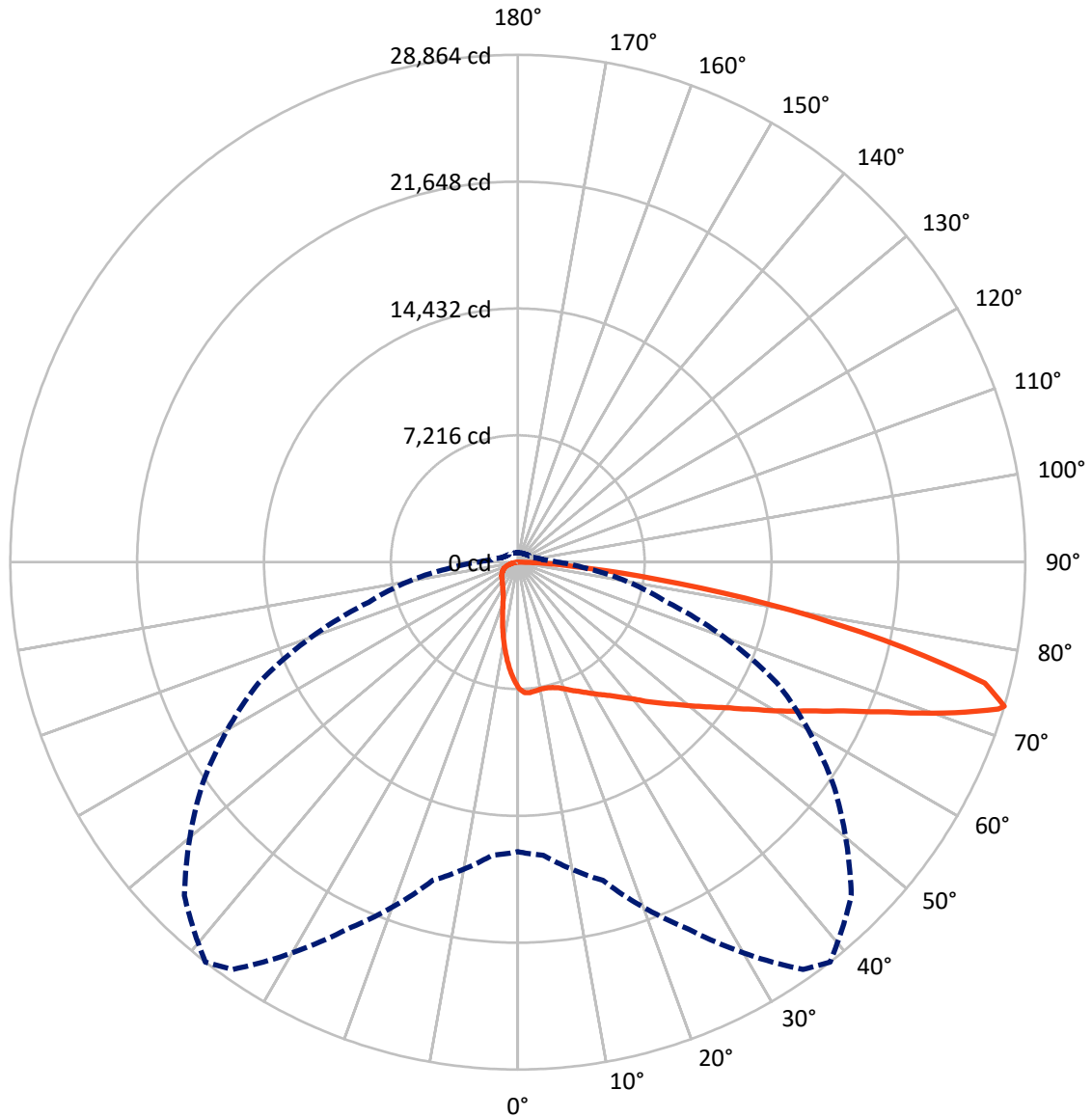
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	5497.2	0.0	5497.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	35395.8	0.0	35395.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	40893.0	0.0	40893.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.1	1.5
10°-20°	1608.1	3.9
20°-30°	2504.1	6.1
30°-40°	3673.0	9.0
40°-50°	5448.4	13.3
50°-60°	7719.3	18.9
60°-70°	9792.2	23.9
70°-80°	8151.3	19.9
80°-90°	1369.5	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°	40893.0	100.0
0°-180°	40893.0	100.0



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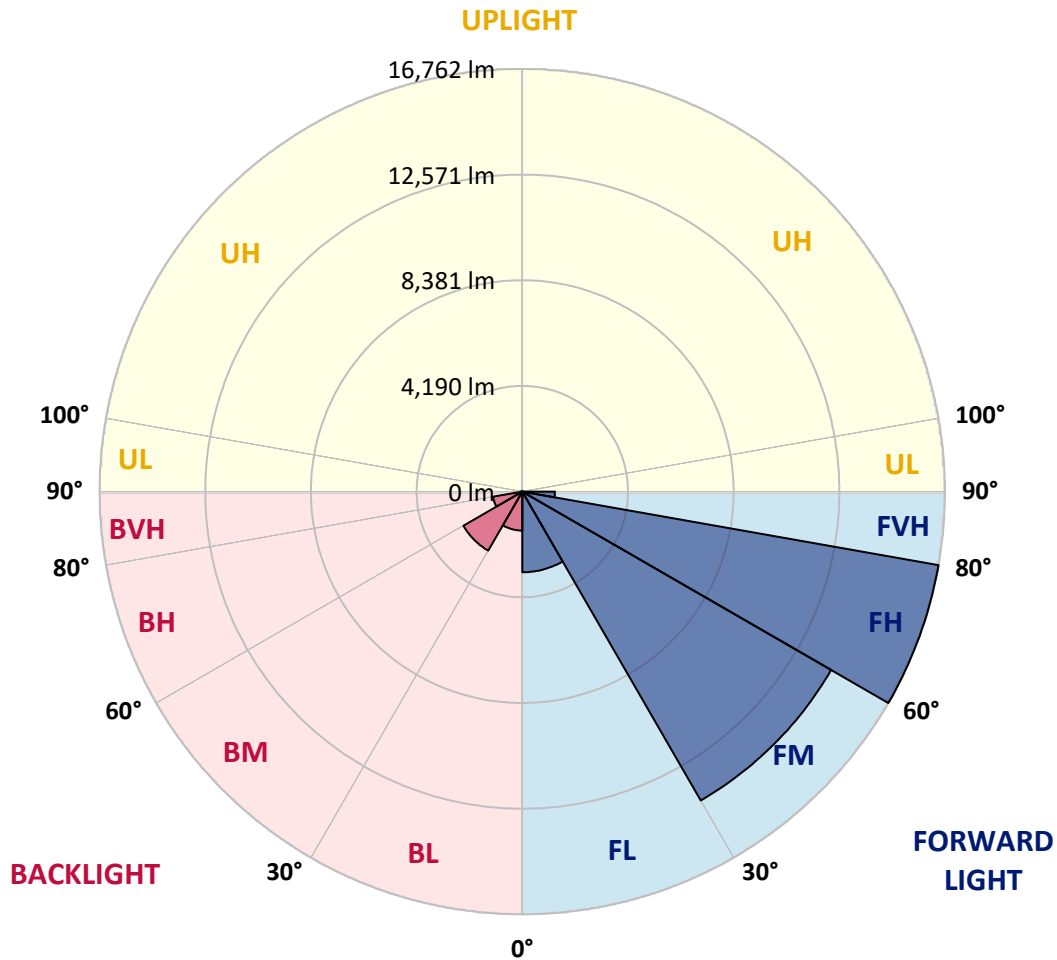
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3196.7	7.8			
FM (30°-60°)	14141.9	34.6			
FH (60°-80°)	16761.9	41.0			G5
FVH (80°-90°)	1295.3	3.2			G5
BL (0°-30°)	1542.6	3.8	B3/2500		
BM (30°-60°)	2698.8	6.6	B3/5000		
BH (60°-80°)	1181.6	2.9	B3/2500		G3/2500
BVH (80°-90°)	74.3	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°	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2
2.5°	7472.9	7509.8	7491.3	7465.9	7449.8	7433.6	7410.5	7343.5	7290.4	7232.7	7142.6
5°	7528.3	7551.4	7535.2	7502.9	7465.9	7449.8	7405.9	7318.1	7232.7	7135.7	7001.8
7.5°	7496.0	7505.2	7486.7	7447.5	7415.1	7385.1	7334.3	7237.3	7133.4	7015.6	6840.1
10°	7380.5	7415.1	7415.1	7382.8	7350.5	7334.3	7283.5	7191.1	7096.5	6962.5	6754.7
12.5°	7285.8	7322.8	7352.8	7343.5	7341.2	7341.2	7302.0	7232.7	7121.9	6994.8	6747.8
15°	7221.2	7265.0	7329.7	7366.6	7389.7	7396.7	7380.5	7320.5	7207.3	7059.5	6775.5
17.5°	7207.3	7260.4	7378.2	7459.0	7519.1	7516.7	7512.1	7429.0	7304.3	7151.9	6810.1
20°	7269.7	7338.9	7502.9	7629.9	7717.7	7701.5	7676.1	7567.5	7422.1	7251.2	6842.4
22.5°	7456.7	7528.3	7708.4	7847.0	7932.4	7932.4	7856.2	7713.0	7558.3	7366.6	6886.3
25°	7724.6	7803.1	7994.8	8135.6	8174.9	8144.9	8068.7	7895.5	7717.7	7532.9	6978.7
27.5°	8052.5	8147.2	8325.0	8442.8	8431.2	8408.1	8329.6	8107.9	7930.1	7761.5	7135.7
30°	8461.2	8530.5	8715.3	8743.0	8701.4	8696.8	8585.9	8364.3	8198.0	8068.7	7359.7
32.5°	8846.9	8909.2	9057.0	9068.6	8994.7	9003.9	8900.0	8696.8	8602.1	8555.9	7736.1
35°	9255.6	9288.0	9415.0	9401.1	9352.6	9345.7	9304.1	9110.2	9140.2	9223.3	8269.6
37.5°	9597.4	9662.1	9733.7	9745.2	9742.9	9766.0	9793.7	9701.3	9874.5	10135.5	8969.3
40°	9911.5	9966.9	10073.1	10110.1	10200.1	10246.3	10341.0	10343.3	10742.8	11172.4	9830.7
42.5°	10123.9	10218.6	10417.2	10484.2	10703.6	10842.1	10983.0	11133.1	11712.7	12264.6	10846.7
45°	10308.7	10433.4	10763.6	10971.4	11269.3	11437.9	11735.8	12049.9	12883.5	13606.3	11879.0
47.5°	10588.1	10698.9	11077.7	11444.9	11895.2	12089.1	12534.8	13003.6	14093.6	14885.7	12867.4
50°	10976.1	11043.0	11428.7	12026.8	12601.8	12851.2	13440.1	14116.7	15386.8	16148.9	13735.7
52.5°	11472.6	11500.3	11807.4	12604.1	13361.6	13671.0	14451.5	15241.3	16518.4	17245.8	14423.8
55°	12059.1	12012.9	12253.1	13216.1	14229.9	14634.0	15472.3	16379.8	17790.8	18132.6	14925.0
57.5°	12638.8	12567.2	12758.8	13959.7	15301.4	15788.6	16765.5	17552.9	18927.0	18961.6	15276.0
60°	13253.0	13199.9	13428.5	14832.6	16615.4	17192.7	18095.6	18769.9	20026.2	19538.9	15331.4
62.5°	13883.5	13798.0	14123.6	15814.0	18095.6	18619.8	19495.0	20063.1	21104.6	19753.7	14797.9
65°	14495.4	14456.2	14959.6	16980.2	19781.4	20377.2	21227.0	21612.7	21968.3	19430.4	13474.7
67.5°	15146.6	15225.2	16028.8	18536.7	21979.8	22728.1	23644.8	23282.3	22215.4	17899.3	11347.9
70°	16139.6	16190.4	17432.8	20575.8	24813.3	25716.3	26159.7	23875.8	21023.8	14991.9	8530.5
72.5°	16566.9	16790.9	18686.8	22716.5	28032.5	28584.4	27004.9	22552.5	17513.7	10184.0	4482.3
73°	16472.2	16740.1	18744.5	23042.1	28284.2	28863.8	26824.7	21871.3	16280.5	8770.7	3842.7
75°	15292.1	15622.4	17994.0	22769.6	27794.6	27448.2	23928.9	18640.6	11001.5	3988.1	1750.4
77.5°	12066.1	12160.7	14257.6	18386.6	21887.5	21245.5	17908.6	11650.4	4493.9	1482.6	993.0
80°	6052.7	6401.4	8036.3	10532.7	14636.3	14426.1	11304.0	5510.0	1872.8	870.6	658.1
82.5°	2912.0	3159.1	3914.2	5135.9	8087.1	7895.5	5597.7	3011.3	1189.3	508.0	388.0
85°	1875.1	2059.9	2491.7	2450.2	3325.4	3175.3	2514.8	2279.3	704.3	265.6	270.2
87.5°	1237.8	1355.6	1625.7	1300.1	1210.1	1094.6	1110.8	1284.0	138.6	101.6	36.9
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°	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2	7184.2
2.5°	7105.7	7075.7	6976.4	6879.4	6787.0	6699.3	6641.5	6565.3	6514.5	6528.4	6549.2
5°	6927.9	6860.9	6685.4	6514.5	6352.9	6161.2	6006.5	5881.8	5787.1	5752.4	5745.5
7.5°	6740.8	6627.7	6376.0	6082.7	5807.9	5570.0	5295.2	5159.0	4999.6	4944.2	4925.7
10°	6627.7	6475.3	6121.9	5713.2	5299.8	4904.9	4607.0	4364.6	4145.2	4103.6	4082.8
12.5°	6595.3	6394.4	5918.7	5392.2	4842.6	4357.6	3916.6	3597.9	3385.4	3336.9	3265.3
15°	6576.9	6327.5	5729.4	5068.9	4371.5	3780.3	3316.1	2944.3	2750.4	2621.0	2623.4
17.5°	6560.7	6251.3	5516.9	4715.6	3965.1	3283.8	2771.2	2436.3	2258.5	2189.2	2182.3
20°	6537.6	6161.2	5272.1	4343.8	3500.9	2831.2	2367.0	2117.6	1997.5	1939.8	1937.5
22.5°	6528.4	6073.4	5031.9	3965.1	3089.8	2482.5	2099.1	1923.6	1847.4	1808.2	1808.2
25°	6551.5	6011.1	4780.2	3604.8	2725.0	2184.6	1914.4	1794.3	1750.4	1729.7	1722.7
27.5°	6623.0	5983.4	4530.8	3244.6	2390.1	1981.4	1789.7	1706.6	1674.2	1658.1	1660.4
30°	6759.3	5981.1	4286.0	2888.9	2140.7	1826.6	1690.4	1632.7	1607.3	1598.0	1595.7
32.5°	6978.7	6031.9	4045.9	2595.6	1930.6	1697.3	1598.0	1556.5	1544.9	1538.0	1535.7
35°	7350.5	6175.0	3808.0	2327.8	1768.9	1581.9	1510.3	1489.5	1473.3	1480.3	1482.6
37.5°	7851.6	6422.1	3581.7	2117.6	1646.5	1496.4	1436.4	1417.9	1408.7	1415.6	1422.5
40°	8523.6	6777.8	3392.3	1949.0	1558.8	1424.8	1371.7	1355.6	1346.3	1357.9	1360.2
42.5°	9264.9	7188.8	3235.3	1817.4	1487.2	1364.8	1314.0	1295.5	1288.6	1295.5	1297.8
45°	10026.9	7666.8	3154.5	1722.7	1427.1	1320.9	1267.8	1247.0	1230.9	1226.2	1233.2
47.5°	10777.5	8082.5	3152.2	1665.0	1378.6	1281.7	1223.9	1200.8	1180.0	1168.5	1166.2
50°	11389.4	8412.8	3207.6	1639.6	1337.1	1237.8	1180.0	1157.0	1129.2	1106.2	1110.8
52.5°	11851.3	8627.5	3233.0	1628.1	1314.0	1191.6	1133.9	1113.1	1080.7	1050.7	1050.7
55°	12149.2	8678.3	3170.7	1616.5	1295.5	1143.1	1080.7	1062.3	1029.9	999.9	999.9
57.5°	12250.8	8521.3	2946.7	1588.8	1277.0	1101.5	1027.6	1011.5	986.1	956.0	951.4
60°	12015.2	7990.1	2554.1	1505.7	1240.1	1057.7	969.9	963.0	953.7	928.3	926.0
62.5°	11107.7	6863.2	2126.9	1397.1	1177.7	1011.5	916.8	928.3	935.3	921.4	919.1
65°	9597.4	5572.3	1817.4	1247.0	1094.6	946.8	859.1	889.1	907.6	907.6	902.9
67.5°	7784.6	4279.1	1531.1	1117.7	990.7	859.1	794.4	817.5	831.3	826.7	838.3
70°	5533.1	2898.2	1247.0	969.9	859.1	759.8	711.3	711.3	702.0	697.4	697.4
72.5°	2683.4	1655.8	1011.5	810.6	732.0	648.9	609.7	593.5	575.0	572.7	561.2
73°	2242.3	1484.9	965.3	780.5	702.0	632.7	588.9	563.5	551.9	542.7	540.4
75°	1364.8	1126.9	805.9	658.1	598.1	545.0	505.7	482.6	471.1	464.2	461.9
77.5°	898.3	840.6	625.8	503.4	457.2	424.9	408.7	385.7	378.7	369.5	369.5
80°	669.7	642.0	448.0	355.6	327.9	300.2	295.6	291.0	272.5	260.9	256.3
82.5°	431.8	457.2	304.8	237.9	207.8	184.7	187.1	194.0	175.5	159.3	154.7
85°	307.1	330.2	184.7	108.5	87.8	76.2	85.4	76.2	78.5	62.4	50.8
87.5°	50.8	87.8	32.3	13.9	6.9	4.6	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)