

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: P455334

Luminaire Tested: **GALN-SA6C-730-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455334
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-SA6C-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 37164 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

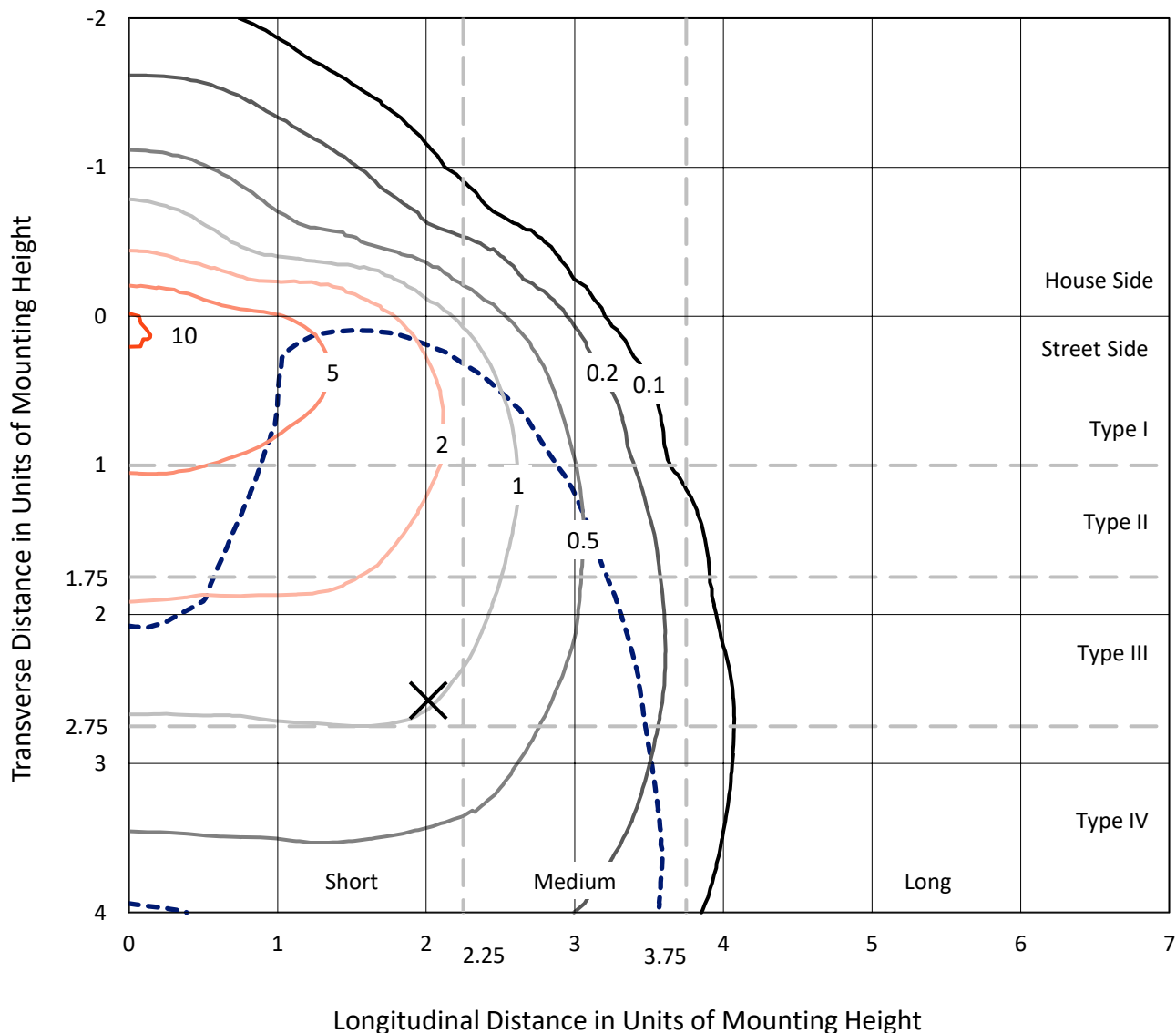
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

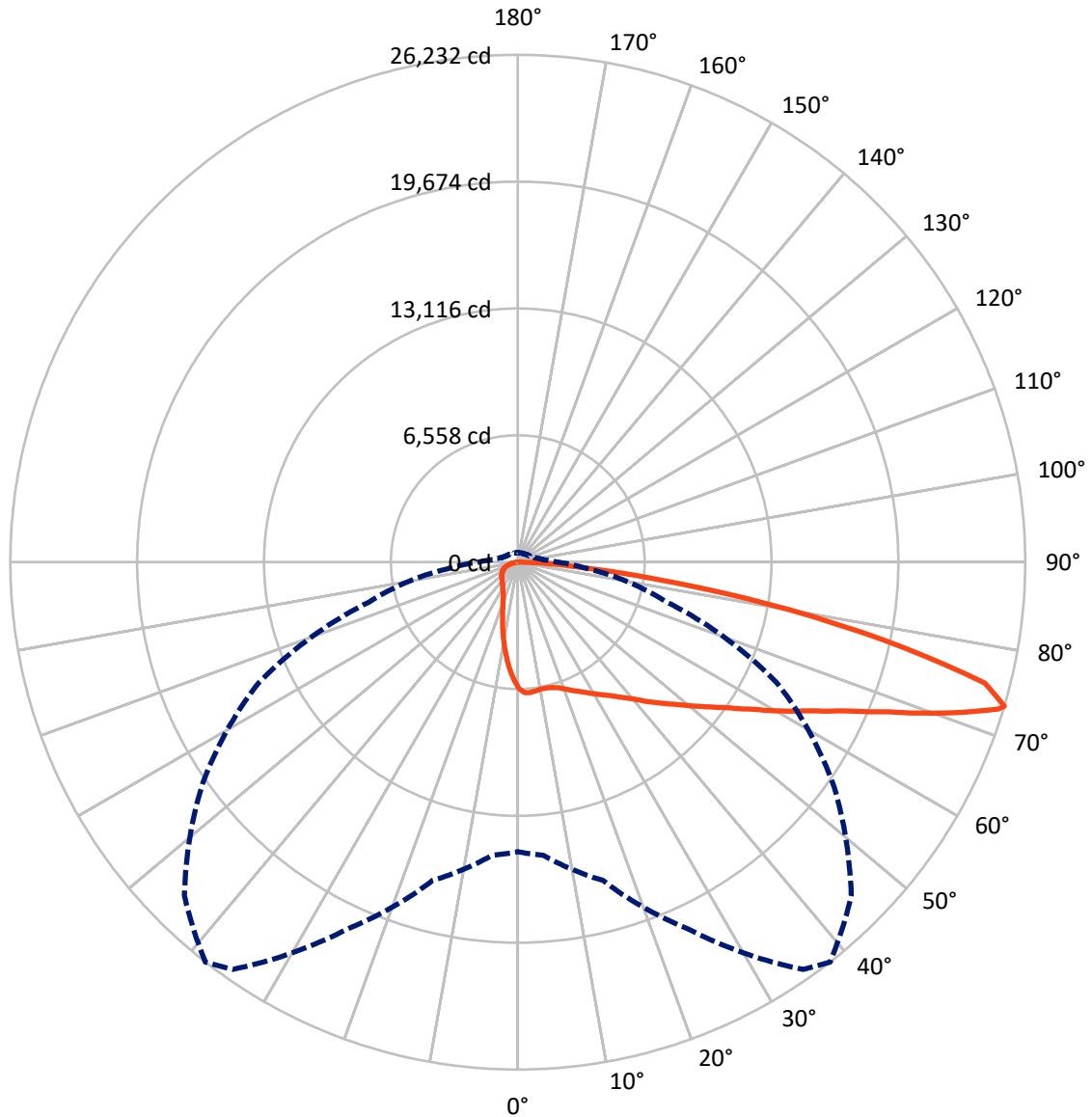
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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	4995.9	0.0	4995.9
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	32168.1	0.0	32168.1
	% Fixture	86.6	0.0	86.6
Total	Lumens	37164.0	0.0	37164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.9	1.5
10°-20°	1461.5	3.9
20°-30°	2275.8	6.1
30°-40°	3338.0	9.0
40°-50°	4951.6	13.3
50°-60°	7015.4	18.9
60°-70°	8899.2	23.9
70°-80°	7408.0	19.9
80°-90°	1244.6	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°	37164.0	100.0
0°-180°	37164.0	100.0

Coefficient of Utilization



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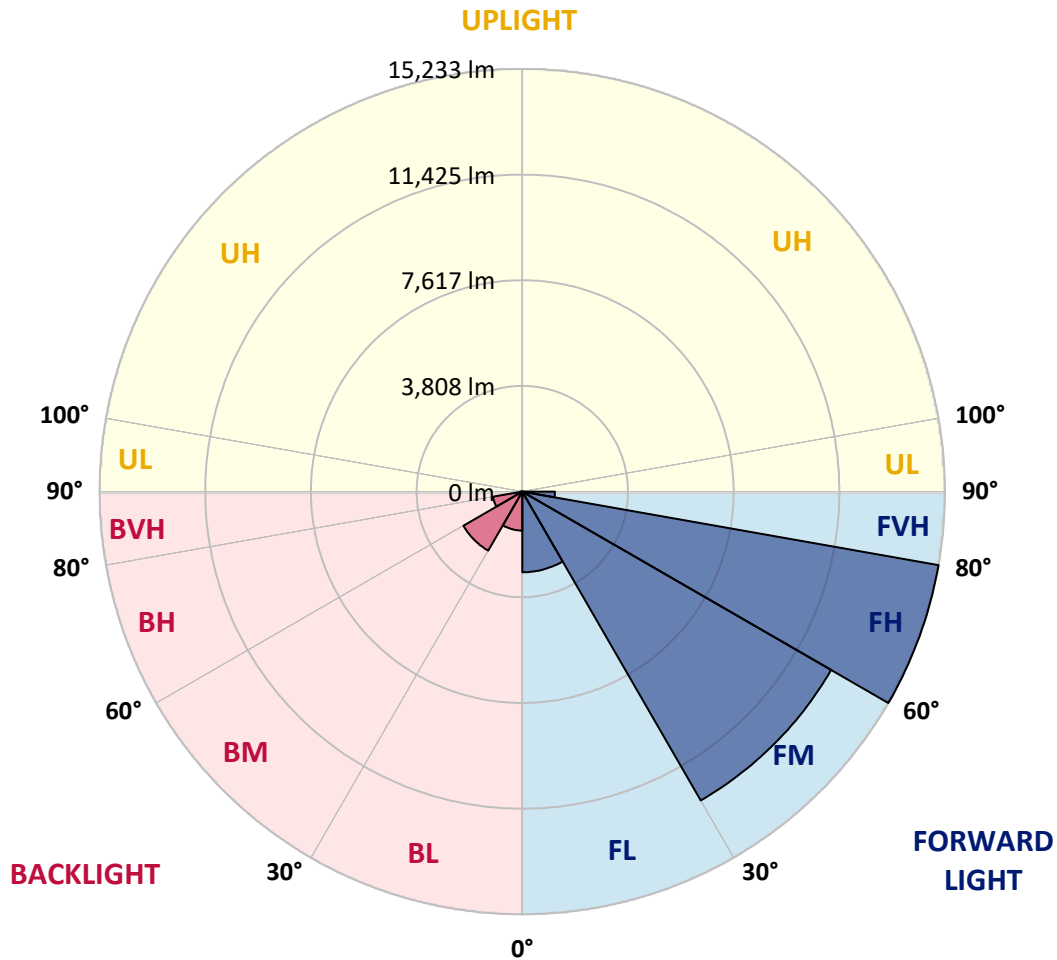
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2905.2	7.8			
FM (30°-60°)	12852.3	34.6			
FH (60°-80°)	15233.4	41.0			G5
FVH (80°-90°)	1177.2	3.2			G5
BL (0°-30°)	1401.9	3.8	B3/2500		
BM (30°-60°)	2452.7	6.6	B2/2500		
BH (60°-80°)	1073.8	2.9	B3/2500		G3/2500
BVH (80°-90°)	67.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1
2.5°	6791.4	6825.0	6808.2	6785.1	6770.4	6755.7	6734.8	6673.9	6625.6	6573.2	6491.3
5°	6841.8	6862.8	6848.1	6818.7	6785.1	6770.4	6730.6	6650.8	6573.2	6485.0	6363.3
7.5°	6812.4	6820.8	6804.0	6768.3	6739.0	6711.7	6665.5	6577.4	6482.9	6375.9	6216.4
10°	6707.5	6739.0	6739.0	6709.6	6680.2	6665.5	6619.3	6535.4	6449.3	6327.6	6138.7
12.5°	6621.4	6655.0	6682.3	6673.9	6671.8	6671.8	6636.1	6573.2	6472.4	6357.0	6132.4
15°	6562.7	6602.5	6661.3	6694.9	6715.9	6722.2	6707.5	6652.9	6550.1	6415.8	6157.6
17.5°	6550.1	6598.3	6705.4	6778.8	6833.4	6831.3	6827.1	6751.5	6638.2	6499.7	6189.1
20°	6606.7	6669.7	6818.7	6934.1	7013.9	6999.2	6976.1	6877.5	6745.3	6589.9	6218.5
22.5°	6776.7	6841.8	7005.5	7131.4	7209.1	7209.1	7139.8	7009.7	6869.1	6694.9	6258.4
25°	7020.2	7091.5	7265.7	7393.8	7429.4	7402.1	7332.9	7175.5	7013.9	6846.0	6342.3
27.5°	7318.2	7404.2	7565.8	7672.9	7662.4	7641.4	7570.0	7368.6	7207.0	7053.8	6485.0
30°	7689.7	7752.6	7920.5	7945.7	7907.9	7903.7	7803.0	7601.5	7450.4	7332.9	6688.6
32.5°	8040.2	8096.8	8231.1	8241.6	8174.5	8182.9	8088.4	7903.7	7817.7	7775.7	7030.7
35°	8411.6	8441.0	8556.4	8543.8	8499.8	8493.5	8455.7	8279.4	8306.7	8382.2	7515.5
37.5°	8722.2	8781.0	8846.1	8856.6	8854.5	8875.4	8900.6	8816.7	8974.1	9211.2	8151.4
40°	9007.7	9058.0	9154.6	9188.1	9270.0	9312.0	9398.0	9400.1	9763.2	10153.6	8934.2
42.5°	9200.7	9286.8	9467.3	9528.1	9727.5	9853.4	9981.5	10117.9	10644.7	11146.2	9857.6
45°	9368.6	9482.0	9782.1	9971.0	10241.7	10394.9	10665.6	10951.1	11708.7	12365.6	10795.8
47.5°	9622.6	9723.3	10067.5	10401.2	10810.5	10986.7	11391.8	11817.8	12808.4	13528.3	11694.0
50°	9975.2	10036.0	10386.5	10930.1	11452.7	11679.3	12214.5	12829.4	13983.7	14676.3	12483.1
52.5°	10426.4	10451.6	10730.7	11454.8	12143.1	12424.4	13133.7	13851.5	15012.1	15673.2	13108.5
55°	10959.5	10917.5	11135.8	12010.9	12932.2	13299.5	14061.4	14886.1	16168.5	16479.1	13564.0
57.5°	11486.2	11421.2	11595.4	12686.7	13906.0	14348.9	15236.6	15952.3	17201.0	17232.5	13883.0
60°	12044.5	11996.2	12204.0	13480.0	15100.2	15624.9	16445.5	17058.3	18200.0	17757.2	13933.3
62.5°	12617.4	12539.8	12835.7	14372.0	16445.5	16921.9	17717.3	18233.6	19180.1	17952.4	13448.5
65°	13173.6	13137.9	13595.4	15431.8	17977.5	18519.0	19291.3	19641.8	19965.0	17658.5	12246.0
67.5°	13765.4	13836.8	14567.1	16846.3	19975.5	20655.5	21488.7	21159.2	20189.6	16267.1	10313.1
70°	14667.9	14714.1	15843.2	18699.5	22550.6	23371.2	23774.2	21698.6	19106.7	13624.8	7752.6
72.5°	15056.1	15259.7	16982.8	20645.0	25476.2	25977.8	24542.3	20496.0	15916.6	9255.3	4073.6
73°	14970.1	15213.5	17035.2	20940.9	25705.0	26231.8	24378.6	19876.9	14795.9	7970.9	3492.3
75°	13897.7	14197.8	16353.1	20693.3	25260.1	24945.3	21746.8	16940.8	9998.3	3624.5	1590.8
77.5°	10965.8	11051.8	12957.4	16709.9	19891.6	19308.1	16275.5	10588.0	4084.1	1347.4	902.4
80°	5500.7	5817.6	7303.5	9572.2	13301.6	13110.6	10273.2	5007.5	1702.1	791.2	598.1
82.5°	2646.5	2871.0	3557.3	4667.5	7349.7	7175.5	5087.3	2736.7	1080.8	461.7	352.6
85°	1704.2	1872.0	2264.5	2226.7	3022.1	2885.7	2285.5	2071.4	640.1	241.4	245.5
87.5°	1124.9	1231.9	1477.5	1181.6	1099.7	994.8	1009.5	1166.9	125.9	92.3	33.6
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°	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1	6529.1
2.5°	6457.7	6430.4	6340.2	6252.1	6168.1	6088.4	6035.9	5966.6	5920.5	5933.1	5951.9
5°	6296.1	6235.3	6075.8	5920.5	5773.5	5599.4	5458.7	5345.4	5259.4	5227.9	5221.6
7.5°	6126.1	6023.3	5794.5	5528.0	5278.3	5062.1	4812.3	4688.5	4543.7	4493.3	4476.5
10°	6023.3	5884.8	5563.7	5192.2	4816.5	4457.7	4186.9	3966.6	3767.2	3729.4	3710.5
12.5°	5993.9	5811.3	5379.0	4900.5	4401.0	3960.3	3559.4	3269.8	3076.7	3032.6	2967.6
15°	5977.1	5750.5	5206.9	4606.7	3972.9	3435.6	3013.7	2675.9	2499.6	2382.0	2384.1
17.5°	5962.4	5681.2	5013.8	4285.6	3603.5	2984.4	2518.5	2214.1	2052.5	1989.6	1983.3
20°	5941.4	5599.4	4791.4	3947.7	3181.6	2573.0	2151.2	1924.5	1815.4	1762.9	1760.8
22.5°	5933.1	5519.6	4573.1	3603.5	2808.1	2256.1	1907.7	1748.2	1679.0	1643.3	1643.3
25°	5954.0	5462.9	4344.3	3276.1	2476.5	1985.4	1739.8	1630.7	1590.8	1571.9	1565.6
27.5°	6019.1	5437.8	4117.7	2948.7	2172.2	1800.7	1626.5	1550.9	1521.6	1506.9	1509.0
30°	6142.9	5435.7	3895.2	2625.5	1945.5	1660.1	1536.3	1483.8	1460.7	1452.3	1450.2
32.5°	6342.3	5481.8	3676.9	2358.9	1754.5	1542.6	1452.3	1414.5	1404.0	1397.7	1395.6
35°	6680.2	5611.9	3460.8	2115.5	1607.6	1437.6	1372.6	1353.7	1339.0	1345.3	1347.4
37.5°	7135.6	5836.5	3255.1	1924.5	1496.4	1360.0	1305.4	1288.6	1280.2	1286.5	1292.8
40°	7746.3	6159.7	3083.0	1771.3	1416.6	1294.9	1246.6	1231.9	1223.5	1234.0	1236.1
42.5°	8420.0	6533.3	2940.3	1651.7	1351.6	1240.3	1194.2	1177.4	1171.1	1177.4	1179.5
45°	9112.6	6967.7	2866.8	1565.6	1297.0	1200.5	1152.2	1133.3	1118.6	1114.4	1120.7
47.5°	9794.7	7345.5	2864.7	1513.2	1252.9	1164.8	1112.3	1091.3	1072.4	1061.9	1059.8
50°	10350.8	7645.6	2915.1	1490.1	1215.2	1124.9	1072.4	1051.5	1026.3	1005.3	1009.5
52.5°	10770.6	7840.8	2938.2	1479.6	1194.2	1082.9	1030.5	1011.6	982.2	954.9	954.9
55°	11041.3	7886.9	2881.5	1469.1	1177.4	1038.9	982.2	965.4	936.0	908.7	908.7
57.5°	11133.7	7744.2	2678.0	1443.9	1160.6	1001.1	933.9	919.2	896.1	868.9	864.7
60°	10919.6	7261.5	2321.2	1368.4	1127.0	961.2	881.5	875.2	866.8	843.7	841.6
62.5°	10094.8	6237.4	1932.9	1269.7	1070.3	919.2	833.2	843.7	850.0	837.4	835.3
65°	8722.2	5064.2	1651.7	1133.3	994.8	860.5	780.7	808.0	824.8	824.8	820.6
67.5°	7074.7	3888.9	1391.4	1015.8	900.3	780.7	722.0	742.9	755.5	751.3	761.8
70°	5028.5	2633.9	1133.3	881.5	780.7	690.5	646.4	646.4	638.0	633.8	633.8
72.5°	2438.7	1504.8	919.2	736.6	665.3	589.7	554.1	539.4	522.6	520.5	510.0
73°	2037.8	1349.5	877.3	709.4	638.0	575.0	535.2	512.1	501.6	493.2	491.1
75°	1240.3	1024.2	732.4	598.1	543.6	495.3	459.6	438.6	428.1	421.8	419.7
77.5°	816.4	763.9	568.8	457.5	415.5	386.2	371.5	350.5	344.2	335.8	335.8
80°	608.6	583.4	407.1	323.2	298.0	272.8	268.6	264.4	247.6	237.2	233.0
82.5°	392.5	415.5	277.0	216.2	188.9	167.9	170.0	176.3	159.5	144.8	140.6
85°	279.1	300.1	167.9	98.6	79.8	69.3	77.7	69.3	71.4	56.7	46.2
87.5°	46.2	79.8	29.4	12.6	6.3	4.2	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)