

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: P455330

Luminaire Tested: **GALN-SA6C-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455330
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37899 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

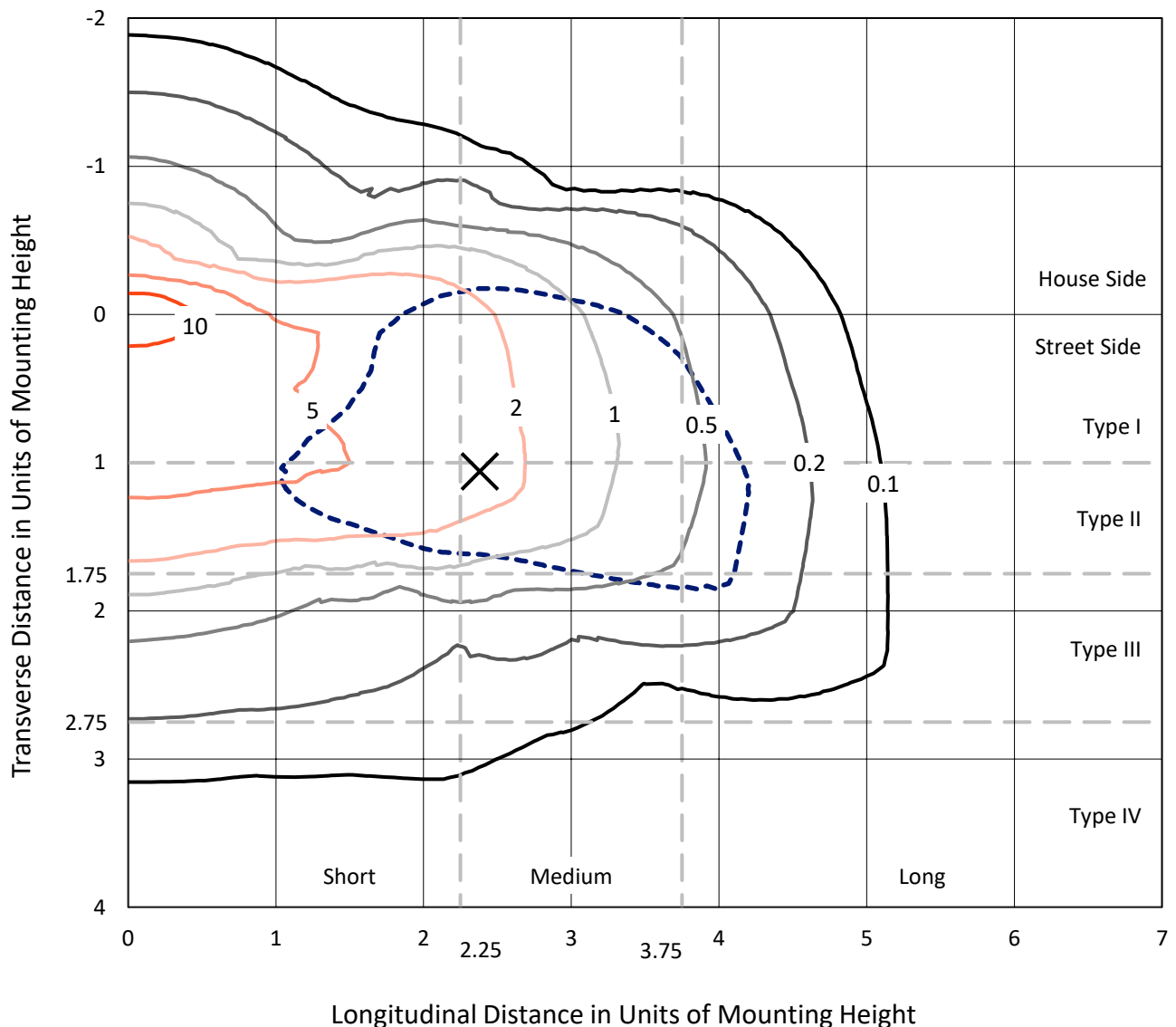
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

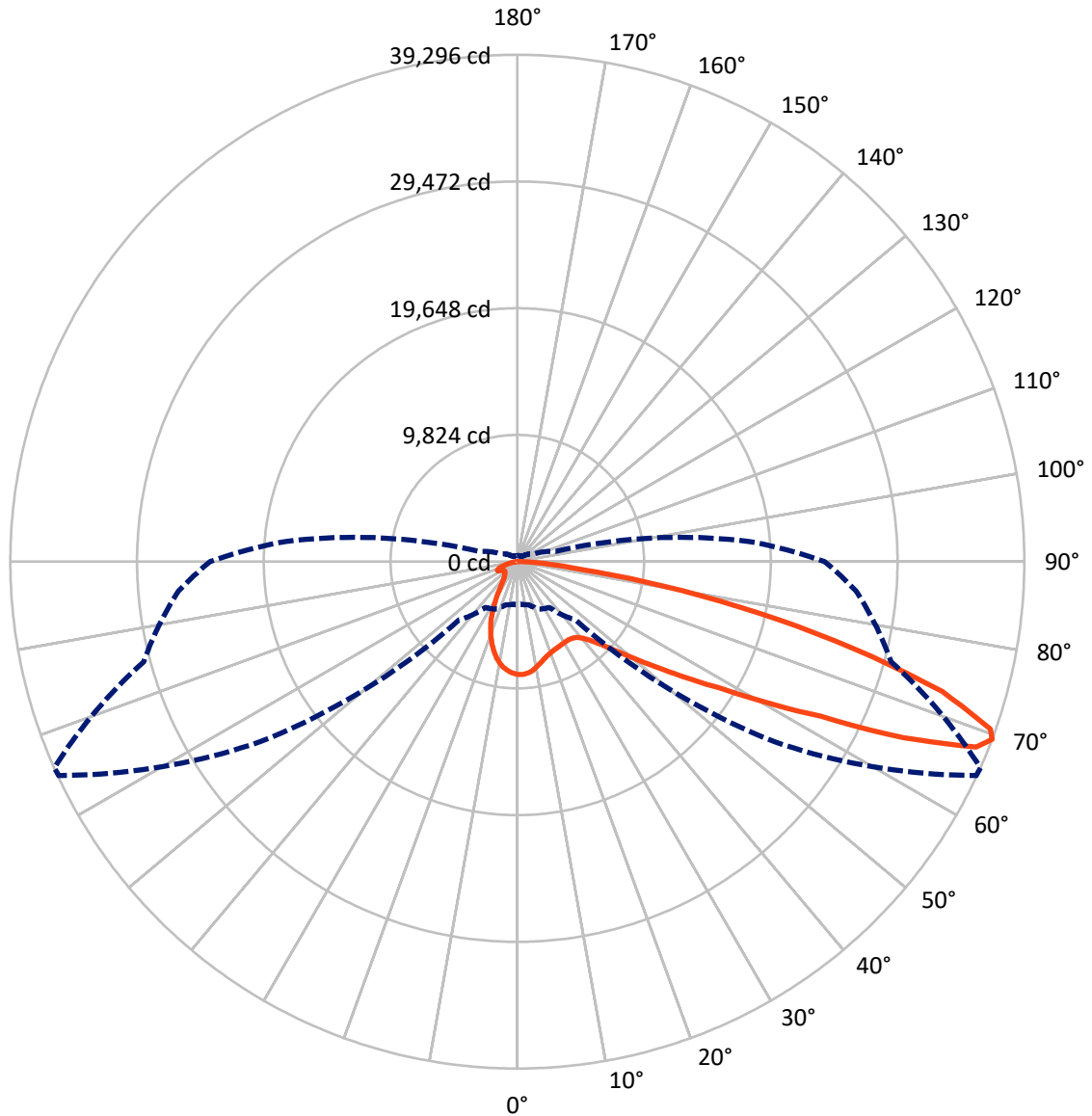
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7127.4	0.0	7127.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	30771.6	0.0	30771.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	37899.0	0.0	37899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.0	2.0
10°-20°	1802.7	4.8
20°-30°	2454.1	6.5
30°-40°	3297.8	8.7
40°-50°	4924.2	13.0
50°-60°	7832.7	20.7
60°-70°	9633.8	25.4
70°-80°	6268.2	16.5
80°-90°	925.6	2.4
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°	37899.0	100.0
0°-180°	37899.0	100.0

Coefficient of Utilization



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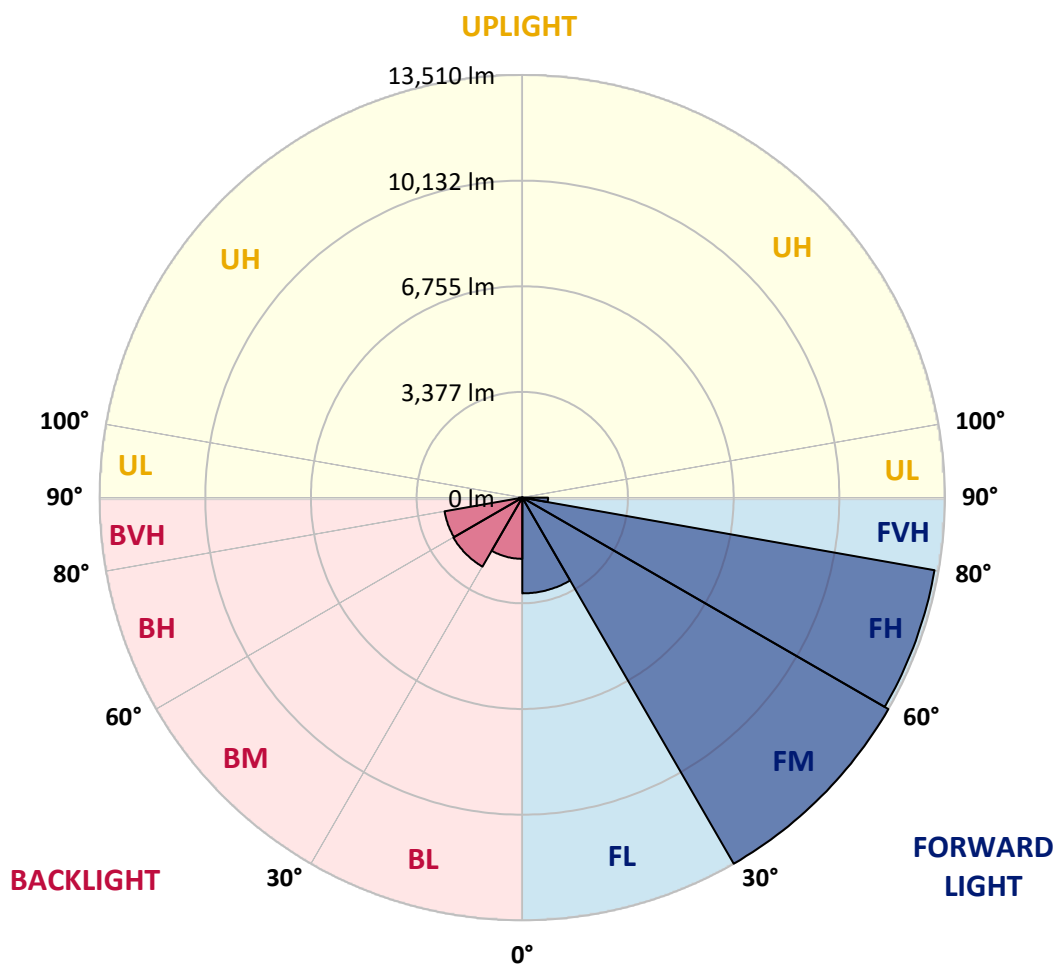
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3060.3	8.1			
FM	(30°-60°)	13509.9	35.6			
FH	(60°-80°)	13378.5	35.3			G5
FVH	(80°-90°)	822.9	2.2			G5
BL	(0°-30°)	1956.5	5.2	B3/2500		
BM	(30°-60°)	2544.8	6.7	B3/5000		
BH	(60°-80°)	2523.4	6.7	B4/5000		G4/5000
BVH	(80°-90°)	102.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9
2.5°	8445.5	8479.1	8516.9	8558.8	8638.6	8682.7	8714.2	8749.8	8754.0	8772.9	8758.2
5°	7822.2	7862.0	7918.7	7998.5	8118.1	8304.9	8498.0	8655.4	8674.3	8762.4	8787.6
7.5°	7301.7	7324.8	7370.9	7499.0	7669.0	7876.7	8158.0	8477.0	8523.2	8733.0	8806.5
10°	6877.7	6900.8	6955.4	7087.6	7255.5	7515.7	7824.3	8244.0	8281.8	8642.8	8810.7
12.5°	6560.8	6581.8	6640.6	6770.7	6963.8	7207.2	7547.2	7992.2	8046.7	8523.2	8770.8
15°	6319.4	6359.3	6407.6	6514.6	6718.2	6953.3	7282.8	7761.3	7805.4	8397.2	8743.5
17.5°	6216.6	6235.5	6269.1	6367.7	6516.7	6747.6	7079.2	7580.8	7633.3	8309.1	8737.2
20°	6220.8	6239.7	6246.0	6300.6	6407.6	6607.0	6934.4	7438.1	7501.1	8231.4	8747.7
22.5°	6363.5	6365.6	6342.5	6323.6	6365.6	6531.4	6831.5	7331.1	7404.5	8197.9	8756.1
25°	6583.9	6621.7	6588.1	6499.9	6422.3	6502.0	6791.7	7272.3	7341.5	8149.6	8745.6
27.5°	6940.7	6947.0	6919.7	6800.1	6598.6	6539.8	6774.9	7228.2	7287.0	8113.9	8693.2
30°	7419.2	7400.3	7375.1	7242.9	6926.0	6684.6	6810.6	7188.3	7249.2	8061.4	8630.2
32.5°	7904.0	7962.8	7939.7	7784.4	7373.0	6965.9	6926.0	7184.1	7234.5	8021.6	8560.9
35°	8418.2	8445.5	8554.6	8474.9	8053.0	7421.3	7142.2	7249.2	7289.1	8023.7	8512.7
37.5°	8821.2	8894.6	9150.7	9220.0	8823.3	8023.7	7492.7	7433.9	7450.7	8126.5	8531.6
40°	9308.1	9434.0	9763.5	10046.9	9786.6	8806.5	8088.7	7776.0	7797.0	8374.2	8655.4
42.5°	9925.2	10013.3	10456.1	10840.2	10798.2	9841.2	8810.7	8336.4	8346.9	8867.4	9001.7
45°	10647.1	10773.1	11270.5	11847.6	11946.3	11012.3	9853.8	9184.3	9178.0	9633.4	9648.1
47.5°	11570.6	11648.3	12141.5	12771.1	13169.9	12483.6	11119.4	10401.6	10334.4	10750.0	10630.3
50°	12420.6	12542.3	12915.9	13604.3	14597.0	14206.7	12783.7	11979.9	11822.5	12210.7	12009.2
52.5°	12777.4	12905.4	13220.2	14074.5	15820.6	16435.6	14897.2	13862.5	13600.1	13898.2	13824.7
55°	12158.3	12324.1	12617.9	13656.8	16357.9	19006.6	17747.3	16038.9	15847.9	15719.9	15740.9
57.5°	10493.9	10651.3	11048.0	12193.9	15715.7	20872.4	21816.9	18836.6	18427.3	17837.6	17938.3
60°	7988.0	8086.6	8292.3	9562.1	13812.1	21357.2	26438.4	22373.0	22112.8	19946.8	20018.2
62.5°	5673.0	5784.3	5927.0	6560.8	10111.9	19990.9	30056.7	27311.5	26381.7	22131.7	22062.4
65°	4606.8	4531.3	4703.4	4999.3	5933.3	15493.2	30871.0	34166.1	32885.9	25009.1	24047.9
67.5°	3788.3	3708.6	3878.6	4405.3	4512.4	8993.3	27936.9	38615.5	38359.5	28138.4	26064.8
69°	3353.9	3311.9	3460.9	4061.1	4331.9	6386.6	24337.5	39234.7	39295.5	29983.2	26375.4
70°	3022.2	3039.0	3183.9	3886.9	4250.0	5265.9	20801.1	38380.5	38896.8	30904.6	26039.6
72.5°	2224.7	2260.4	2461.9	3219.5	4172.4	4468.3	12378.6	33523.9	34436.9	30959.2	23821.2
75°	1555.2	1538.4	1716.8	2424.1	3941.5	4428.4	7270.2	25926.3	26961.0	26759.5	20016.1
77.5°	1017.9	1045.2	1187.9	1712.6	3316.1	4394.9	4739.1	18393.7	19065.4	17896.3	11839.2
80°	717.8	715.7	795.4	1169.0	2459.8	4222.8	3880.7	11593.7	11423.7	7033.0	3511.3
82.5°	411.4	440.7	533.1	822.7	1645.4	3716.9	3570.0	5545.0	5062.3	2004.3	1185.8
85°	228.8	239.3	316.9	497.4	961.2	2799.8	3116.7	2522.7	2380.0	837.4	510.0
87.5°	73.5	79.8	132.2	251.9	436.5	1322.2	1765.1	1164.8	1074.6	302.2	205.7
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°	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9	8751.9
2.5°	8764.5	8789.7	8722.5	8657.5	8598.7	8516.9	8443.4	8382.5	8340.6	8334.3	8313.3
5°	8793.9	8796.0	8668.0	8495.9	8328.0	8143.3	7952.3	7815.9	7687.8	7616.5	7580.8
7.5°	8814.9	8796.0	8565.1	8286.0	7962.8	7627.0	7291.2	7022.5	6814.8	6732.9	6764.4
10°	8806.5	8747.7	8409.8	7962.8	7492.7	6991.1	6508.3	6130.6	5784.3	5605.9	5610.1
12.5°	8760.3	8663.8	8179.0	7599.7	6909.2	6237.6	5498.8	4988.8	4587.9	4350.8	4277.3
15°	8720.5	8552.5	7908.2	7106.5	6248.1	5288.9	4388.6	3758.9	3423.1	3236.3	3234.2
17.5°	8678.5	8445.5	7612.3	6583.9	5488.3	4254.2	3309.8	2829.2	2671.8	2690.6	2659.2
20°	8634.4	8319.6	7303.8	6002.5	4562.8	3173.4	2478.7	2283.5	2327.6	2413.6	2426.2
22.5°	8584.0	8185.3	6972.2	5362.4	3588.9	2388.4	2010.6	1981.3	2094.6	2228.9	2247.8
25°	8506.4	8017.4	6554.5	4692.9	2768.3	1924.6	1760.9	1781.9	1893.1	2006.4	2019.0
27.5°	8397.2	7809.6	6132.6	3857.6	2079.9	1651.7	1609.8	1637.1	1691.6	1760.9	1777.7
30°	8250.3	7574.5	5647.8	3135.6	1666.4	1515.3	1498.5	1513.2	1544.7	1574.1	1582.5
32.5°	8103.4	7347.8	5158.8	2401.0	1485.9	1425.1	1408.3	1408.3	1408.3	1412.5	1414.6
35°	7967.0	7133.8	4634.1	1870.0	1391.5	1353.7	1330.6	1305.4	1301.2	1286.6	1286.6
37.5°	7891.4	6938.6	4075.8	1565.7	1322.2	1295.0	1263.5	1221.5	1198.4	1200.5	1196.3
40°	7906.1	6810.6	3567.9	1393.6	1265.6	1236.2	1187.9	1139.6	1124.9	1124.9	1120.8
42.5°	8071.9	6768.6	3081.0	1303.3	1211.0	1177.4	1116.6	1072.5	1064.1	1062.0	1066.2
45°	8453.9	6871.4	2644.5	1244.6	1164.8	1114.5	1053.6	1013.7	1005.3	1005.3	1003.2
47.5°	9199.0	7205.1	2331.7	1206.8	1131.2	1066.2	1003.2	963.3	948.7	944.5	944.5
50°	10357.5	7929.2	2098.8	1173.2	1089.3	1022.1	957.0	910.9	887.8	885.7	883.6
52.5°	11967.3	9058.4	2008.5	1148.0	1043.1	975.9	904.6	860.5	831.1	824.8	820.6
55°	13849.9	10634.5	2132.4	1129.1	994.8	923.5	850.0	803.8	776.6	764.0	761.9
57.5°	16030.5	12527.6	2602.5	1104.0	950.7	866.8	795.4	749.3	719.9	705.2	701.0
60°	17988.7	14473.2	3423.1	1089.3	913.0	805.9	732.5	690.5	663.2	648.5	646.4
62.5°	20139.9	16328.5	4403.3	1129.1	896.2	747.2	673.7	635.9	612.8	598.2	598.2
65°	22438.1	18186.0	5051.8	1263.5	921.4	701.0	610.7	579.3	558.3	547.8	545.7
67.5°	23987.0	18828.2	4161.9	1402.0	984.3	650.6	549.9	524.7	512.1	501.6	501.6
69°	23819.1	18016.0	3070.5	1437.7	1003.2	625.4	516.3	497.4	480.6	476.4	472.2
70°	23288.1	17090.4	2573.1	1414.6	988.5	602.4	495.3	472.2	457.5	453.3	451.2
72.5°	20742.3	14821.6	1916.2	1229.9	841.6	522.6	438.6	417.7	405.1	398.8	398.8
75°	17233.1	12114.2	1496.4	978.0	659.0	440.7	375.7	358.9	348.4	344.2	342.1
77.5°	9658.6	6764.4	1074.6	766.1	499.5	356.8	314.8	300.1	289.6	285.4	285.4
80°	2690.6	1933.0	631.7	505.8	340.0	270.7	249.8	239.3	224.6	214.1	220.4
82.5°	1013.7	837.4	361.0	304.3	216.2	180.5	174.2	165.8	159.5	144.8	144.8
85°	493.2	407.2	230.9	161.6	119.6	94.4	90.2	86.1	81.9	71.4	73.5
87.5°	170.0	180.5	100.7	58.8	35.7	23.1	18.9	10.5	10.5	10.5	10.5
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)