

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: P455100

Luminaire Tested: **GALN-SA6B-730-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455100
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-SA6B-730-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA 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: 30458 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

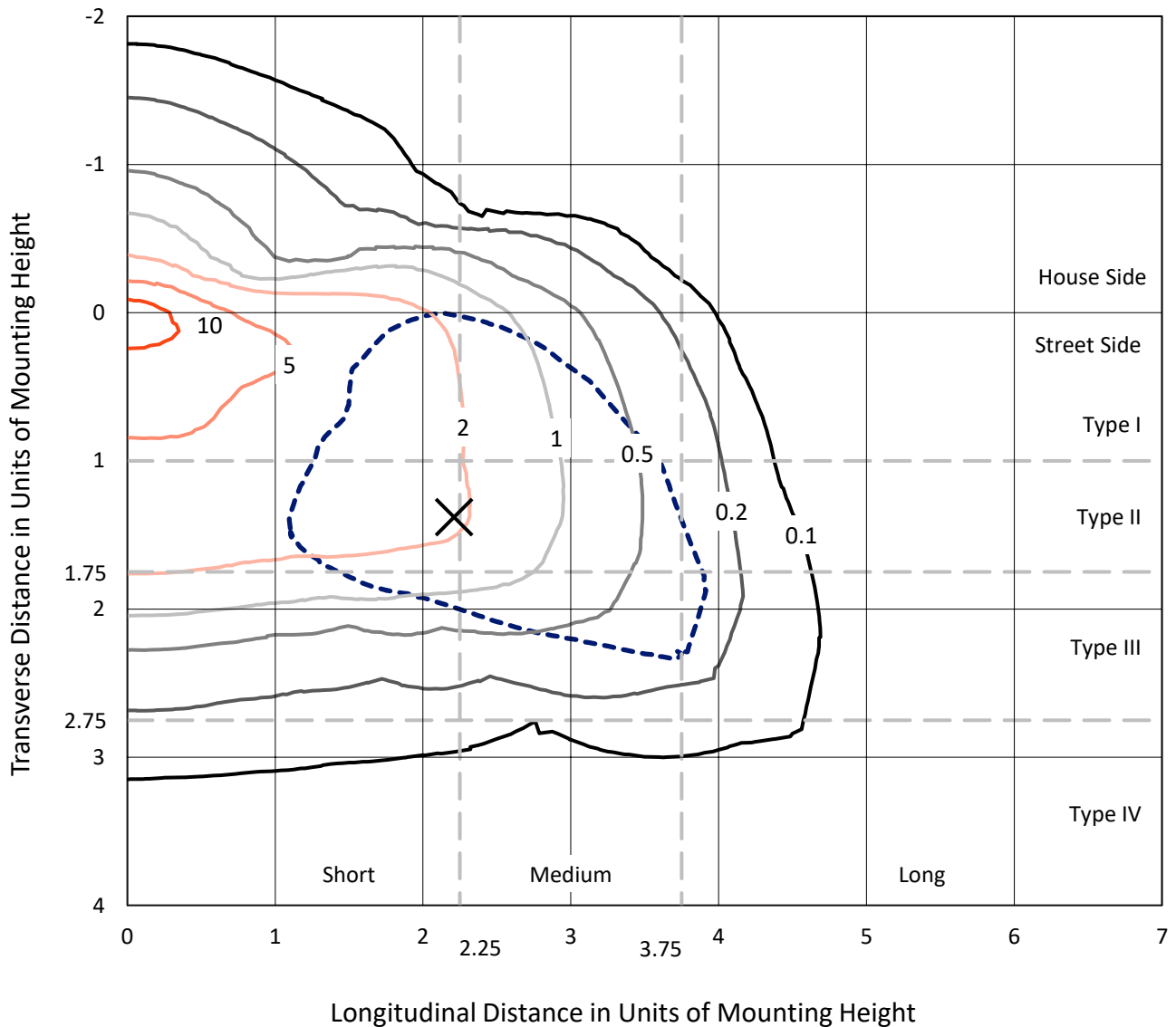
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

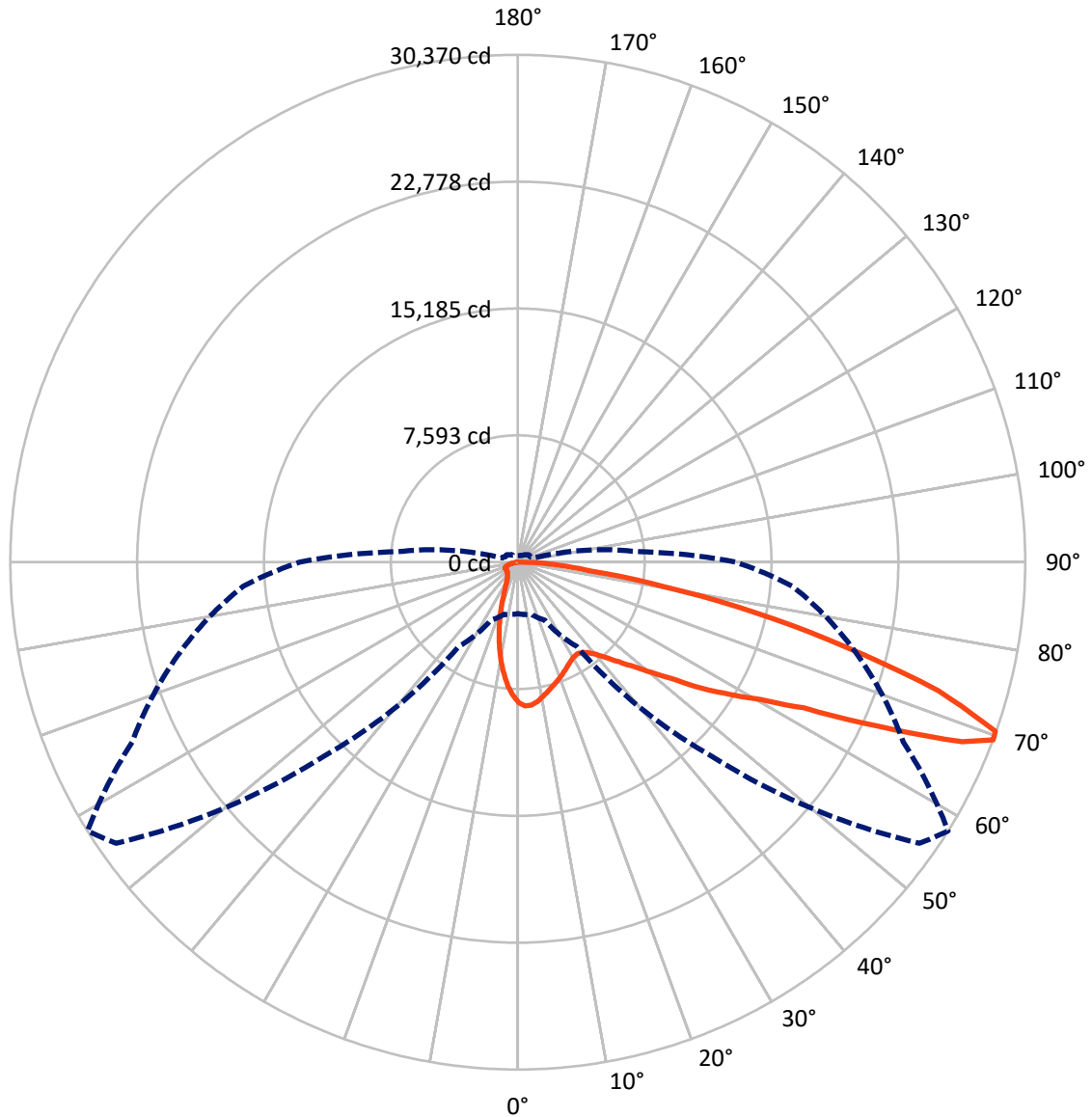
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	4463.6	0.0	4463.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	25994.4	0.0	25994.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	30458.0	0.0	30458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.8	2.3
10°-20°	1569.6	5.2
20°-30°	2027.9	6.7
30°-40°	2633.8	8.6
40°-50°	3829.2	12.6
50°-60°	6110.2	20.1
60°-70°	8162.4	26.8
70°-80°	4705.3	15.4
80°-90°	704.8	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°	30458.0	100.0
0°-180°	30458.0	100.0

Coefficient of Utilization



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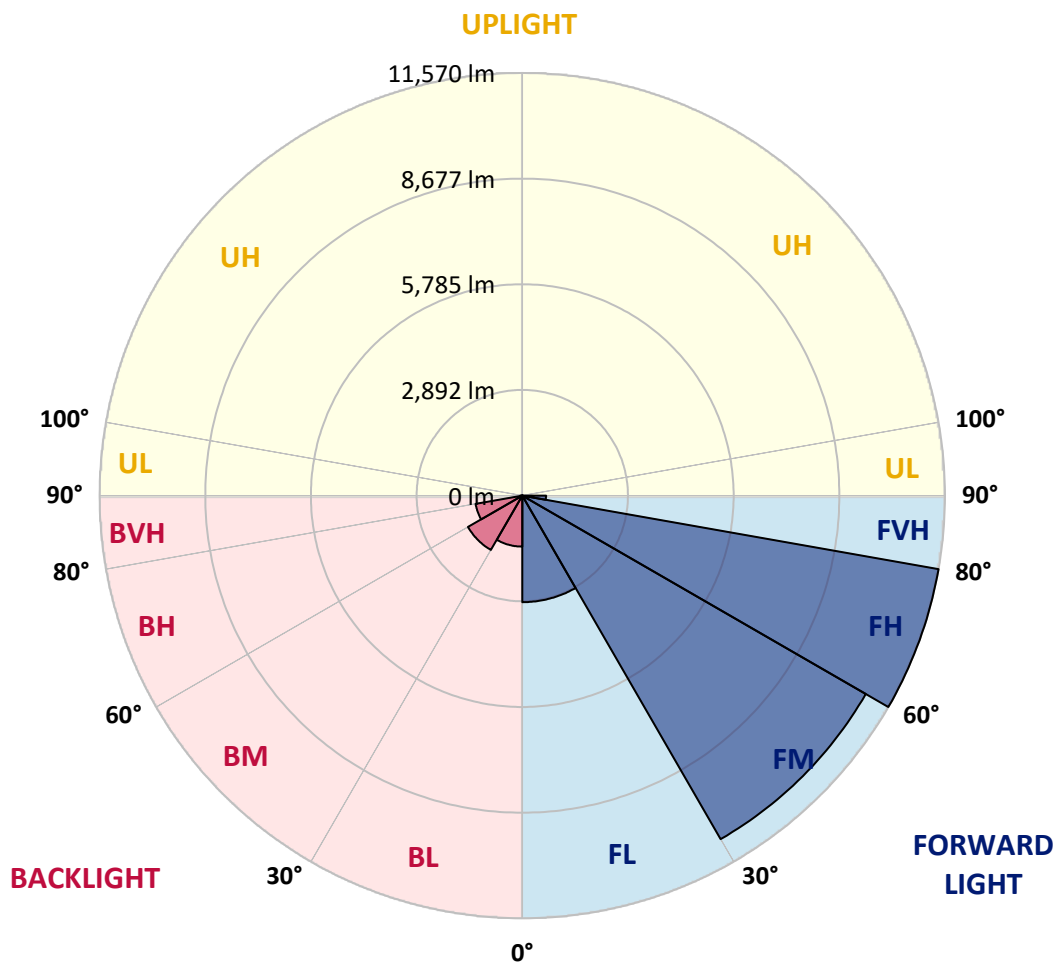
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2917.1	9.6			
FM	(30°-60°)	10856.7	35.6			
FH	(60°-80°)	11569.8	38.0			G4/12000
FVH	(80°-90°)	650.8	2.1			G4/750
BL	(0°-30°)	1395.1	4.6	B3/2500		
BM	(30°-60°)	1716.6	5.6	B2/2500		
BH	(60°-80°)	1297.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	54.0	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°	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8
2.5°	8729.4	8753.1	8746.3	8737.9	8724.3	8686.9	8625.7	8615.6	8576.5	8493.2	8389.6
5°	8595.2	8615.6	8617.2	8629.1	8646.1	8639.3	8595.2	8590.1	8532.3	8420.2	8246.9
7.5°	8134.8	8162.0	8221.5	8287.7	8347.2	8403.2	8416.8	8425.3	8389.6	8260.5	8029.5
10°	7616.7	7643.9	7671.1	7769.6	7915.7	8055.0	8170.5	8185.8	8194.3	8075.4	7793.4
12.5°	7042.6	7098.7	7156.4	7302.5	7497.8	7717.0	7920.8	7953.1	8010.8	7920.8	7589.6
15°	6555.1	6612.8	6696.1	6826.9	7063.0	7378.9	7666.0	7718.7	7832.5	7786.6	7399.3
17.5°	6217.1	6237.4	6295.2	6444.7	6699.5	7032.4	7416.3	7521.6	7703.4	7691.5	7236.2
20°	5950.4	5975.8	6011.5	6103.2	6368.2	6719.9	7183.6	7319.5	7565.8	7606.6	7074.9
22.5°	5838.3	5856.9	5851.8	5901.1	6081.2	6434.5	6947.5	7108.8	7443.5	7548.8	6925.4
25°	5845.1	5862.0	5836.6	5824.7	5931.7	6183.1	6701.2	6906.7	7345.0	7509.7	6789.5
27.5°	5958.9	5970.8	5923.2	5875.6	5884.1	6026.8	6497.3	6725.0	7261.7	7526.7	6675.7
30°	6111.7	6133.8	6103.2	6045.5	5982.6	5989.4	6366.5	6590.8	7222.7	7586.2	6621.3
32.5°	6308.8	6329.2	6315.6	6269.7	6188.2	6098.2	6334.3	6541.5	7226.1	7706.8	6609.4
35°	6516.0	6556.8	6578.9	6575.5	6509.2	6352.9	6461.7	6633.2	7307.6	7908.9	6679.1
37.5°	6750.4	6784.4	6879.5	6940.7	6879.5	6697.8	6748.7	6867.6	7487.6	8201.1	6832.0
40°	6978.1	7029.0	7168.3	7358.5	7334.8	7175.1	7187.0	7265.1	7805.3	8635.9	7130.9
42.5°	7215.9	7277.0	7519.9	7801.9	7858.0	7734.0	7766.2	7835.9	8257.1	9239.0	7643.9
45°	7521.6	7594.7	7893.6	8245.2	8466.1	8389.6	8481.4	8515.3	8861.9	10023.7	8320.0
47.5°	7915.7	8000.6	8369.2	8807.5	9120.0	9189.7	9349.4	9329.0	9611.0	10952.9	9196.5
50°	8579.9	8627.4	8975.7	9422.4	9852.2	10166.4	10339.7	10372.0	10540.1	11856.6	10176.6
52.5°	9369.8	9412.2	9663.6	10054.3	10592.8	11258.6	11686.7	11581.4	11622.2	12957.3	11323.2
55°	10258.1	10329.5	10489.2	10749.1	11447.2	12427.3	13286.8	13312.3	12860.5	14010.5	12422.2
57.5°	10946.1	11066.7	11340.2	11710.5	12595.5	13726.8	14881.9	14898.9	14321.3	15135.0	13635.1
60°	10599.6	10742.3	11367.4	12269.3	14102.2	15994.5	16787.8	16690.9	15743.1	16415.7	15114.6
62.5°	9104.8	9130.2	10039.0	11448.9	14565.9	19028.3	19624.5	19215.1	17640.5	18039.7	16617.9
65°	5892.6	6059.1	6779.3	8754.8	13042.2	20711.6	24594.7	23648.6	20300.6	19882.7	17876.6
67.5°	3720.0	3677.6	3976.5	4999.1	8970.6	19228.7	28836.3	28686.8	23779.4	21046.3	17575.9
69°	3084.7	3132.3	3234.2	3832.2	6172.9	16417.4	29337.4	30370.2	25466.2	20954.5	16483.7
70°	2797.7	2819.8	2926.8	3397.3	4763.0	13750.6	28515.2	30324.3	26128.6	20570.6	15692.1
72.5°	2220.1	2218.4	2401.9	2826.6	3560.4	7849.5	23414.2	26327.4	25388.0	18783.7	12965.8
75°	1686.8	1713.9	1916.1	2391.7	3280.1	4289.1	16339.3	20275.1	20276.8	14836.0	8090.7
77.5°	1216.2	1233.2	1469.3	2007.8	3089.8	3477.1	10883.2	14542.1	13670.7	6798.0	2542.9
80°	796.7	806.9	986.9	1589.9	2785.8	3280.1	6453.2	8900.9	6448.1	1804.0	840.8
82.5°	436.6	487.5	603.0	1029.4	2235.4	3030.4	3922.2	4504.8	2418.9	803.5	438.3
85°	219.1	232.7	339.7	601.3	1460.8	2507.2	2731.4	2583.6	1248.5	399.2	227.6
87.5°	64.5	81.5	141.0	232.7	592.8	1306.3	1520.3	1364.0	480.7	144.4	47.6
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°	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8	8416.8
2.5°	8347.2	8316.6	8180.7	8058.4	7946.3	7827.4	7727.2	7638.8	7647.3	7649.0	7559.0
5°	8156.9	8087.3	7829.1	7587.9	7384.0	7125.8	6905.0	6762.3	6691.0	6595.9	6629.8
7.5°	7898.7	7764.5	7406.1	7005.2	6629.8	6295.2	5931.7	5682.0	5522.3	5367.7	5388.1
10°	7632.0	7416.3	6894.8	6364.8	5879.0	5344.0	4880.2	4482.7	4187.2	4076.8	4003.7
12.5°	7358.5	7074.9	6412.4	5707.5	5036.5	4396.1	3738.7	3312.4	2986.2	2813.0	2835.0
15°	7108.8	6764.0	5909.6	5050.1	4178.7	3416.0	2760.3	2354.3	2126.7	2079.1	2106.3
17.5°	6877.8	6426.0	5439.1	4411.4	3393.9	2561.6	2074.1	1844.7	1753.0	1727.5	1725.8
20°	6640.0	6138.9	4910.8	3728.5	2644.8	1985.7	1702.0	1595.0	1578.0	1588.2	1589.9
22.5°	6398.8	5783.9	4367.2	3050.8	2106.3	1623.9	1488.0	1459.1	1472.7	1496.5	1499.9
25°	6176.3	5471.3	3844.0	2456.2	1681.7	1426.9	1360.6	1360.6	1391.2	1426.9	1428.6
27.5°	5992.8	5169.0	3322.6	1950.0	1408.2	1284.2	1262.1	1274.0	1316.5	1343.6	1345.3
30°	5841.7	4887.0	2829.9	1562.8	1238.3	1170.4	1165.3	1185.7	1216.2	1241.7	1243.4
32.5°	5727.8	4639.0	2369.6	1313.1	1121.1	1083.7	1082.0	1097.3	1114.3	1121.1	1127.9
35°	5683.7	4433.5	1948.4	1155.1	1043.0	1019.2	1019.2	1017.5	1024.3	1027.7	1031.1
37.5°	5719.4	4275.5	1622.2	1053.2	985.2	968.2	958.0	947.8	944.4	944.4	946.1
40°	5870.5	4192.3	1379.3	986.9	944.4	919.0	900.3	888.4	876.5	879.9	883.3
42.5°	6191.6	4207.6	1214.5	942.8	908.8	873.1	845.9	832.3	823.8	834.0	832.3
45°	6702.9	4360.4	1109.2	912.2	873.1	827.2	801.8	788.2	788.2	803.5	808.6
47.5°	7418.0	4652.6	1053.2	888.4	845.9	791.6	766.1	755.9	759.3	784.8	786.5
50°	8291.1	5160.5	1043.0	876.5	832.3	766.1	737.2	727.0	735.5	762.7	766.1
52.5°	9254.2	5814.5	1092.2	878.2	820.4	750.8	713.4	698.1	706.6	728.7	735.5
55°	10395.7	6633.2	1219.6	885.0	803.5	742.3	696.4	662.5	672.7	688.0	689.7
57.5°	11561.0	7666.0	1443.9	886.7	789.9	727.0	667.6	623.4	623.4	633.6	638.7
60°	12984.5	8790.5	1739.4	888.4	791.6	704.9	628.5	579.2	572.4	577.5	579.2
62.5°	14397.8	9731.6	1788.7	883.3	808.6	682.9	586.0	535.1	523.2	521.5	518.1
65°	15021.2	9556.6	1465.9	859.5	827.2	669.3	552.1	492.6	472.2	465.4	465.4
67.5°	14005.4	8083.9	1102.4	827.2	815.4	655.7	519.8	456.9	433.2	419.6	419.6
69°	13050.7	7190.4	990.3	805.2	784.8	633.6	499.4	438.3	409.4	394.1	389.0
70°	12313.5	6575.5	942.8	786.5	755.9	608.1	484.1	424.7	392.4	375.4	372.0
72.5°	9826.7	5158.8	825.5	715.1	643.8	511.3	429.8	382.2	351.6	332.9	327.8
75°	5663.3	2796.0	684.6	621.7	518.1	397.5	363.5	332.9	309.2	292.2	287.1
77.5°	1742.8	1080.3	496.0	490.9	380.5	307.5	290.5	278.6	261.6	242.9	239.5
80°	733.8	550.4	336.3	331.2	253.1	214.0	208.9	207.2	200.4	185.2	180.1
82.5°	402.6	310.9	234.4	203.8	152.9	124.0	129.1	130.8	125.7	110.4	100.2
85°	197.0	169.9	113.8	91.7	69.6	44.2	42.5	51.0	47.6	34.0	37.4
87.5°	39.1	47.6	30.6	13.6	6.8	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)