

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: P454201

Luminaire Tested: **GALN-SA5B-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454201
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-SA5B-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 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: 28244 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

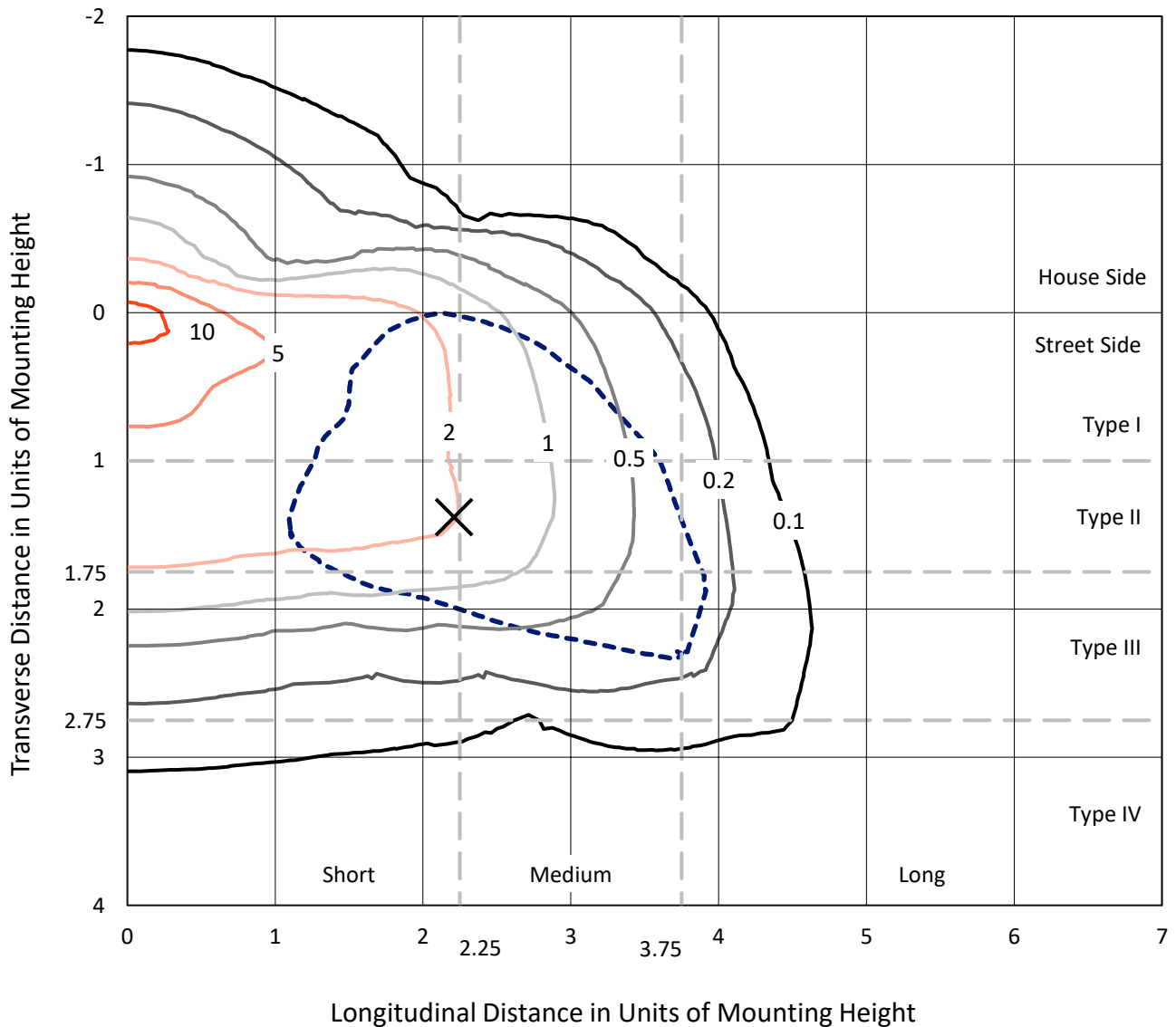
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

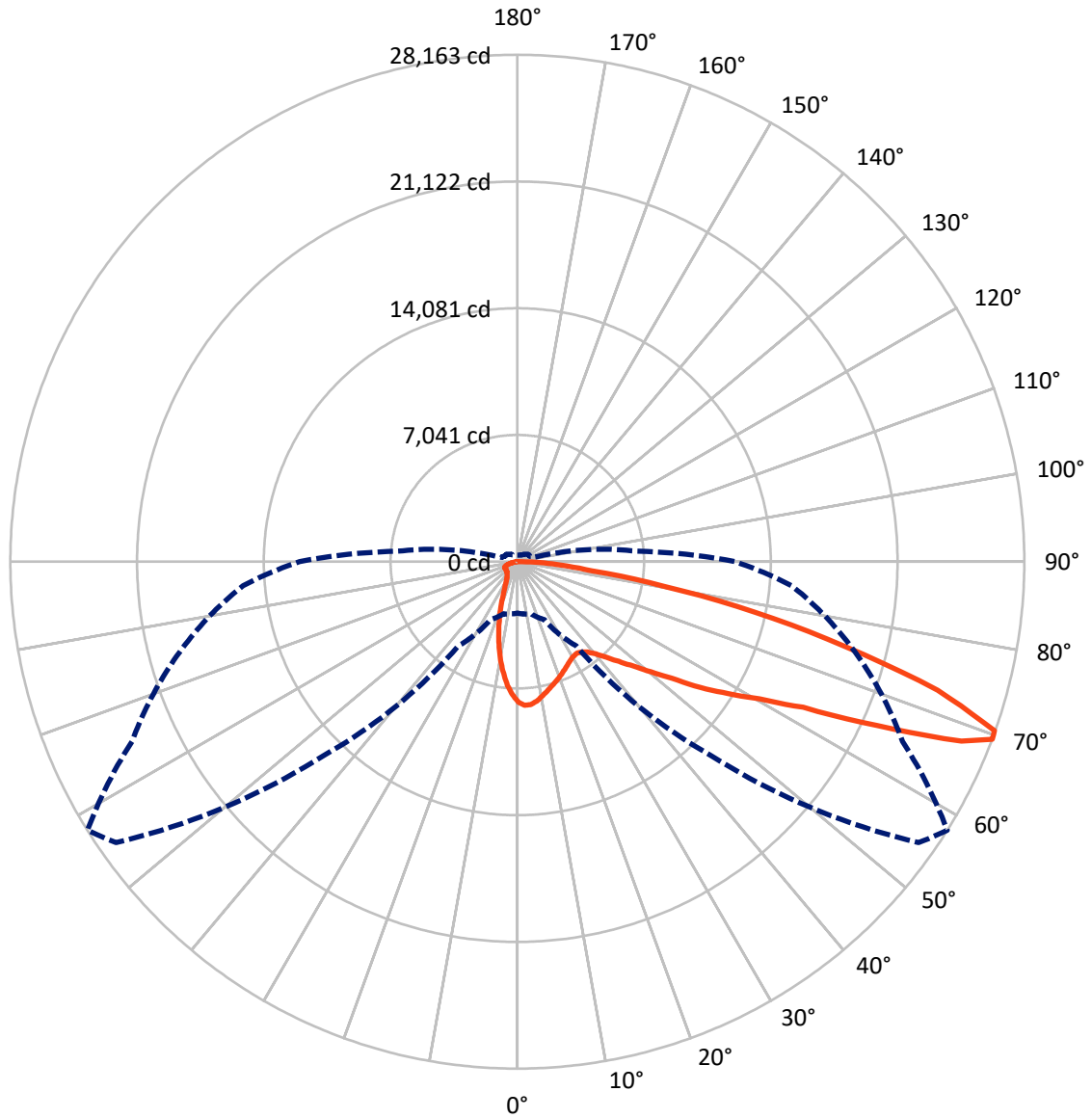
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	4139.2	0.0	4139.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	24104.8	0.0	24104.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	28244.0	0.0	28244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.8	2.3
10°-20°	1455.5	5.2
20°-30°	1880.5	6.7
30°-40°	2442.4	8.6
40°-50°	3550.9	12.6
50°-60°	5666.0	20.1
60°-70°	7569.1	26.8
70°-80°	4363.3	15.4
80°-90°	653.5	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°	28244.0	100.0
0°-180°	28244.0	100.0

Coefficient of Utilization



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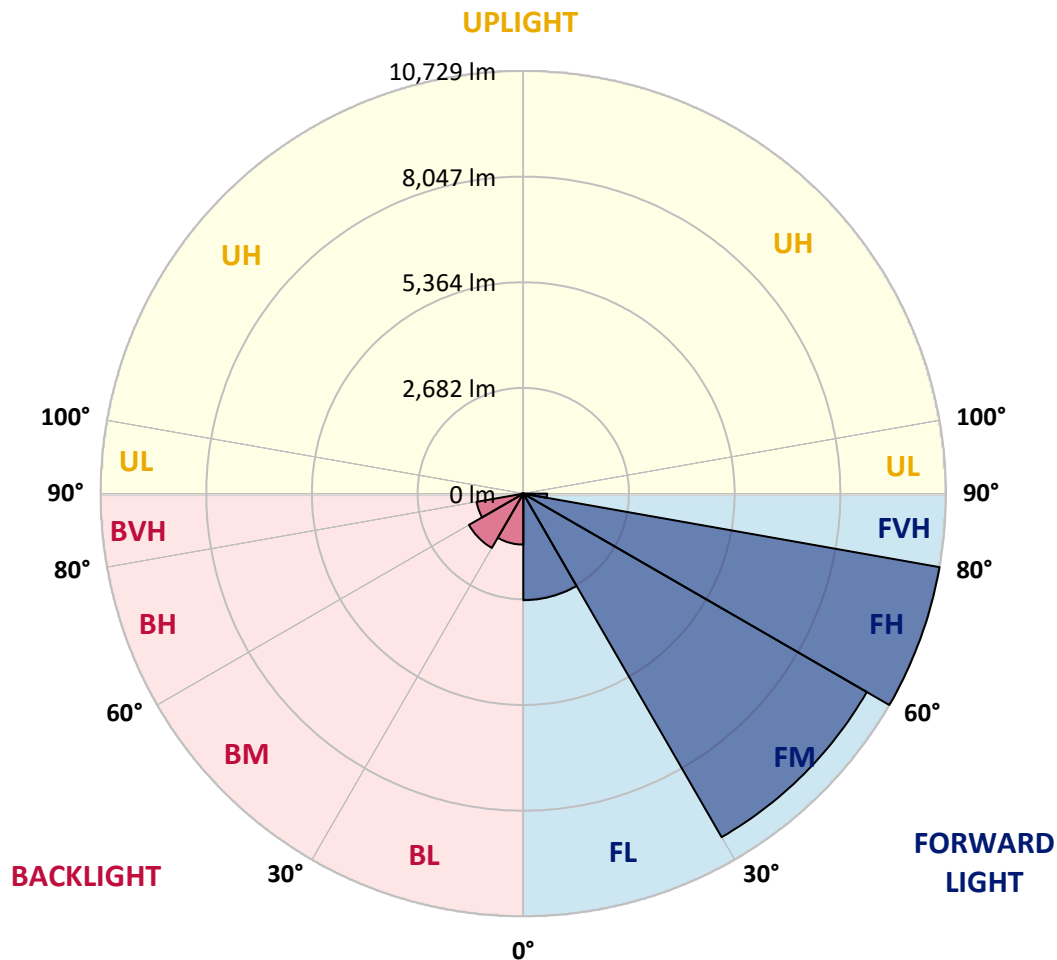
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2705.1	9.6			
FM (30°-60°)	10067.5	35.6			
FH (60°-80°)	10728.8	38.0			G4/12000
FVH (80°-90°)	603.5	2.1			G4/750
BL (0°-30°)	1293.7	4.6	B3/2500		
BM (30°-60°)	1591.8	5.6	B2/2500		
BH (60°-80°)	1203.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	50.1	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°	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0
2.5°	8094.8	8116.9	8110.6	8102.7	8090.1	8055.4	7998.7	7989.3	7953.1	7875.9	7779.8
5°	7970.4	7989.3	7990.9	8001.9	8017.6	8011.3	7970.4	7965.7	7912.1	7808.1	7647.5
7.5°	7543.5	7568.7	7623.8	7685.3	7740.4	7792.4	7805.0	7812.9	7779.8	7660.1	7445.8
10°	7063.1	7088.3	7113.5	7204.8	7340.3	7469.5	7576.6	7590.8	7598.6	7488.4	7226.9
12.5°	6530.7	6582.7	6636.2	6771.7	6952.8	7156.0	7345.0	7375.0	7428.5	7345.0	7037.9
15°	6078.6	6132.2	6209.3	6330.6	6549.6	6842.6	7108.8	7157.6	7263.1	7220.6	6861.5
17.5°	5765.1	5784.0	5837.6	5976.2	6212.5	6521.2	6877.2	6974.9	7143.4	7132.4	6710.2
20°	5517.8	5541.5	5574.5	5659.6	5905.3	6231.4	6661.4	6787.4	7015.8	7053.6	6560.6
22.5°	5413.9	5431.2	5426.5	5472.2	5639.1	5966.8	6442.5	6592.1	6902.4	7000.1	6422.0
25°	5420.2	5435.9	5412.3	5401.3	5500.5	5733.6	6214.1	6404.7	6811.1	6963.8	6296.0
27.5°	5525.7	5536.7	5492.6	5448.5	5456.4	5588.7	6025.0	6236.1	6733.9	6979.6	6190.4
30°	5667.5	5688.0	5659.6	5606.0	5547.8	5554.1	5903.8	6111.7	6697.6	7034.7	6140.0
32.5°	5850.2	5869.1	5856.5	5814.0	5738.4	5654.9	5873.8	6066.0	6700.8	7146.6	6129.0
35°	6042.4	6080.2	6100.6	6097.5	6036.1	5891.2	5992.0	6151.1	6776.4	7334.0	6193.6
37.5°	6259.7	6291.2	6379.5	6436.2	6379.5	6210.9	6258.2	6368.4	6943.4	7604.9	6335.4
40°	6470.8	6518.1	6647.2	6823.7	6801.6	6653.5	6664.6	6737.0	7237.9	8008.2	6612.6
42.5°	6691.3	6748.0	6973.3	7234.8	7286.8	7171.8	7201.7	7266.3	7656.9	8567.4	7088.3
45°	6974.9	7042.6	7319.8	7645.9	7850.7	7779.8	7864.8	7896.3	8217.7	9295.1	7715.2
47.5°	7340.3	7419.1	7760.9	8167.3	8457.1	8521.7	8669.8	8650.9	8912.3	10156.7	8528.0
50°	7956.2	8000.3	8323.2	8737.5	9136.0	9427.4	9588.1	9618.0	9774.0	10994.7	9436.9
52.5°	8688.7	8728.0	8961.2	9323.5	9822.8	10440.3	10837.2	10739.5	10777.3	12015.4	10500.1
55°	9512.5	9578.6	9726.7	9967.7	10615.1	11524.0	12321.0	12344.6	11925.6	12992.0	11519.2
57.5°	10150.4	10262.3	10515.9	10859.3	11679.9	12729.0	13800.1	13815.9	13280.3	14034.8	12643.9
60°	9829.1	9961.4	10541.1	11377.5	13077.1	14831.8	15567.4	15477.7	14598.7	15222.5	14015.9
62.5°	8442.9	8466.6	9309.3	10616.7	13507.1	17645.1	18198.0	17818.4	16358.2	16728.3	15409.9
65°	5464.3	5618.6	6286.5	8118.4	12094.2	19206.1	22806.9	21929.6	18824.9	18437.4	16577.1
67.5°	3449.6	3410.3	3687.5	4635.7	8318.5	17831.0	26740.2	26601.5	22050.9	19516.4	16298.3
69°	2860.5	2904.6	2999.1	3553.6	5724.2	15224.1	27204.8	28162.5	23615.0	19431.3	15285.5
70°	2594.3	2614.8	2714.0	3150.3	4416.8	12751.0	26442.4	28120.0	24229.3	19075.4	14551.5
72.5°	2058.8	2057.2	2227.3	2621.1	3301.6	7278.9	21712.2	24413.6	23542.6	17418.3	12023.3
75°	1564.1	1589.4	1776.8	2217.8	3041.7	3977.3	15151.6	18801.3	18802.9	13757.6	7502.6
77.5°	1127.8	1143.6	1362.5	1861.9	2865.2	3224.4	10092.1	13485.1	12677.0	6303.8	2358.0
80°	738.8	748.2	915.2	1474.4	2583.3	3041.7	5984.1	8253.9	5979.4	1672.8	779.7
82.5°	404.8	452.1	559.2	954.6	2072.9	2810.1	3637.1	4177.4	2243.0	745.1	406.4
85°	203.2	215.8	315.0	557.6	1354.6	2325.0	2532.9	2395.8	1157.8	370.2	211.1
87.5°	59.9	75.6	130.7	215.8	549.7	1211.3	1409.8	1264.9	445.8	133.9	44.1
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°	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0	7805.0
2.5°	7740.4	7712.1	7586.0	7472.6	7368.7	7258.4	7165.5	7083.6	7091.4	7093.0	7009.5
5°	7564.0	7499.4	7260.0	7036.3	6847.3	6607.9	6403.1	6270.8	6204.6	6116.4	6147.9
7.5°	7324.6	7200.1	6867.8	6496.0	6147.9	5837.6	5500.5	5269.0	5120.9	4977.6	4996.5
10°	7077.3	6877.2	6393.6	5902.2	5451.7	4955.5	4525.5	4156.9	3882.8	3780.4	3712.7
12.5°	6823.7	6560.6	5946.3	5292.6	4670.4	4076.6	3467.0	3071.6	2769.2	2608.5	2629.0
15°	6592.1	6272.3	5480.0	4683.0	3874.9	3167.7	2559.7	2183.2	1972.1	1928.0	1953.2
17.5°	6377.9	5958.9	5043.7	4090.7	3147.2	2375.4	1923.3	1710.6	1625.6	1602.0	1600.4
20°	6157.4	5692.7	4553.8	3457.5	2452.5	1841.4	1578.3	1479.1	1463.3	1472.8	1474.4
22.5°	5933.7	5363.5	4049.8	2829.0	1953.2	1505.9	1379.9	1353.1	1365.7	1387.7	1390.9
25°	5727.3	5073.6	3564.6	2277.7	1559.4	1323.1	1261.7	1261.7	1290.1	1323.1	1324.7
27.5°	5557.2	4793.3	3081.0	1808.3	1305.8	1190.8	1170.4	1181.4	1220.8	1246.0	1247.5
30°	5417.0	4531.8	2624.2	1449.2	1148.3	1085.3	1080.6	1099.5	1127.8	1151.5	1153.0
32.5°	5311.5	4301.8	2197.4	1217.6	1039.6	1005.0	1003.4	1017.6	1033.3	1039.6	1045.9
35°	5270.5	4111.2	1806.7	1071.1	967.2	945.1	945.1	943.5	949.8	953.0	956.1
37.5°	5303.6	3964.7	1504.3	976.6	913.6	897.8	888.4	878.9	875.8	875.8	877.4
40°	5443.8	3887.5	1279.0	915.2	875.8	852.2	834.8	823.8	812.8	815.9	819.1
42.5°	5741.5	3901.7	1126.2	874.2	842.7	809.6	784.4	771.8	764.0	773.4	771.8
45°	6215.6	4043.5	1028.6	845.9	809.6	767.1	743.5	730.9	730.9	745.1	749.8
47.5°	6878.8	4314.4	976.6	823.8	784.4	734.0	710.4	701.0	704.1	727.7	729.3
50°	7688.4	4785.4	967.2	812.8	771.8	710.4	683.6	674.2	682.1	707.3	710.4
52.5°	8581.5	5391.8	1012.8	814.4	760.8	696.2	661.6	647.4	655.3	675.7	682.1
55°	9640.1	6151.1	1131.0	820.7	745.1	688.4	645.8	614.3	623.8	637.9	639.5
57.5°	10720.6	7108.8	1338.9	822.2	732.5	674.2	619.0	578.1	578.1	587.5	592.3
60°	12040.6	8151.5	1613.0	823.8	734.0	653.7	582.8	537.1	530.8	535.6	537.1
62.5°	13351.2	9024.2	1658.7	819.1	749.8	633.2	543.4	496.2	485.2	483.6	480.4
65°	13929.3	8861.9	1359.4	797.0	767.1	620.6	511.9	456.8	437.9	431.6	431.6
67.5°	12987.3	7496.3	1022.3	767.1	756.1	608.0	482.0	423.7	401.7	389.1	389.1
69°	12102.1	6667.7	918.3	746.6	727.7	587.5	463.1	406.4	379.6	365.4	360.7
70°	11418.4	6097.5	874.2	729.3	701.0	563.9	448.9	393.8	363.9	348.1	345.0
72.5°	9112.4	4783.8	765.5	663.1	597.0	474.1	398.5	354.4	326.1	308.7	304.0
75°	5251.6	2592.7	634.8	576.5	480.4	368.6	337.1	308.7	286.7	270.9	266.2
77.5°	1616.1	1001.8	460.0	455.2	352.8	285.1	269.4	258.3	242.6	225.2	222.1
80°	680.5	510.4	311.9	307.2	234.7	198.5	193.7	192.2	185.9	171.7	167.0
82.5°	373.3	288.3	217.4	189.0	141.8	115.0	119.7	121.3	116.6	102.4	92.9
85°	182.7	157.5	105.5	85.1	64.6	41.0	39.4	47.3	44.1	31.5	34.7
87.5°	36.2	44.1	28.4	12.6	6.3	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)