

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: P459131

Luminaire Tested: **GALN-SA6B-735-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459131
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-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 31155 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

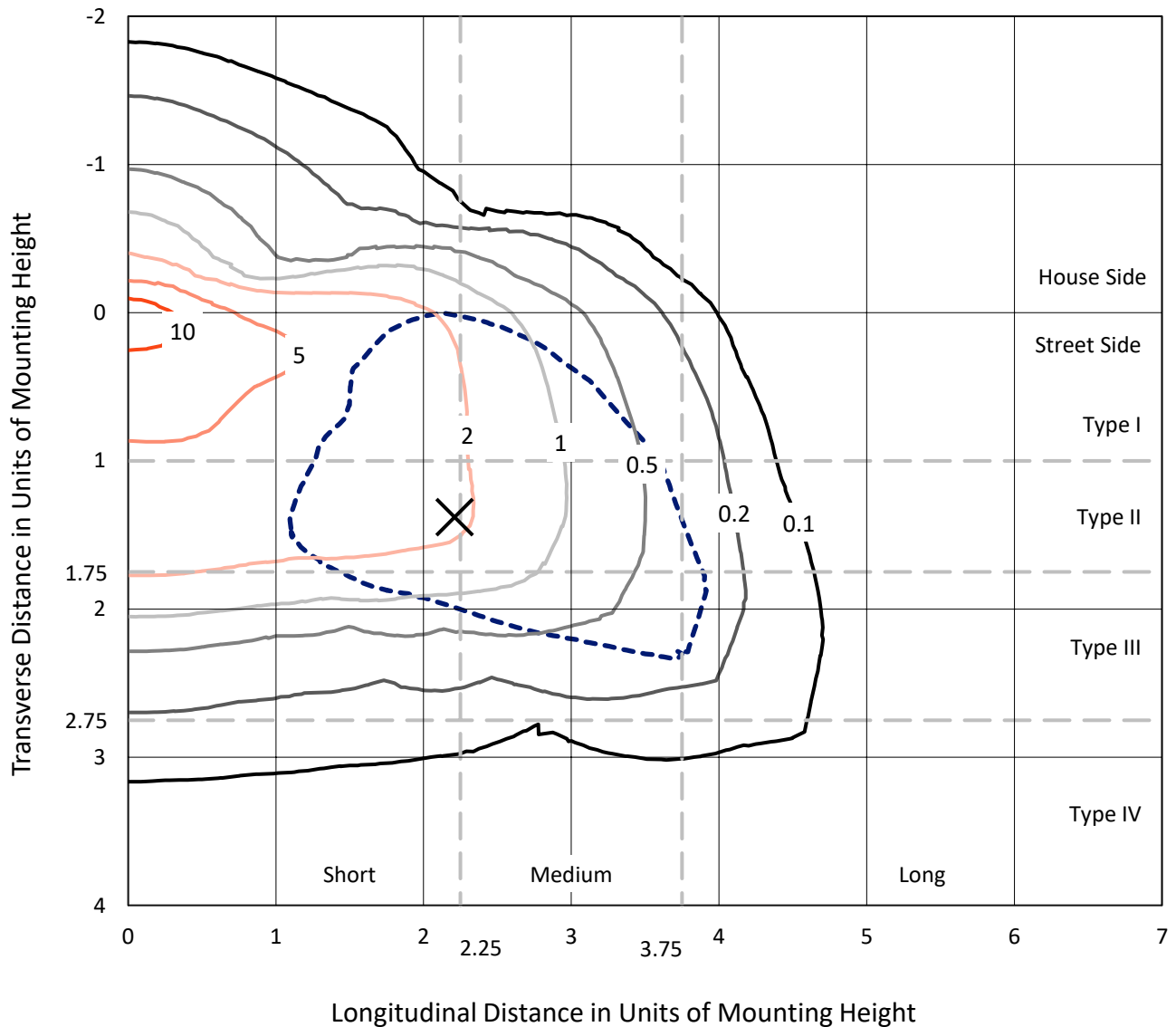
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

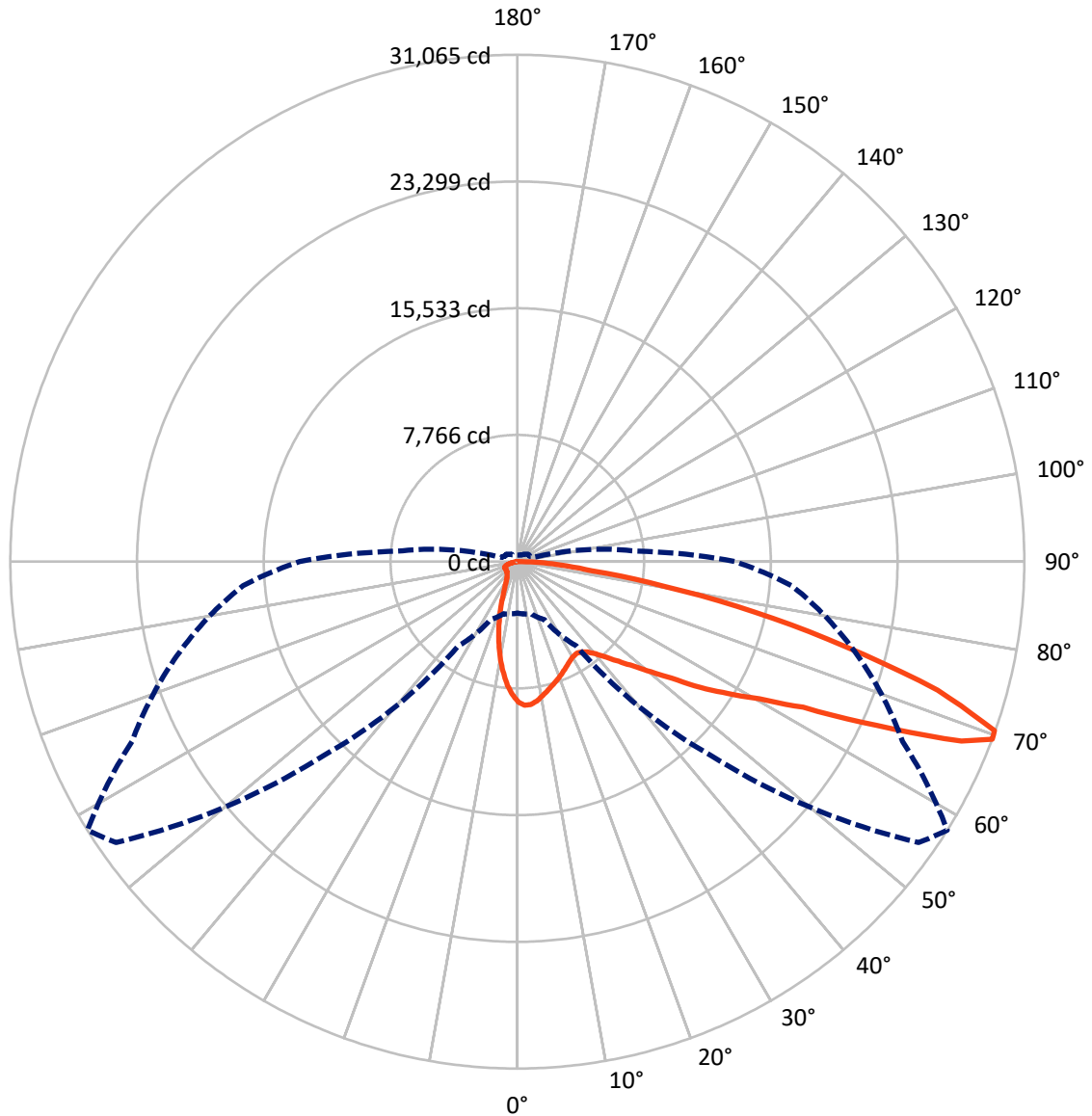
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 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	4565.8	0.0	4565.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	26589.2	0.0	26589.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	31155.0	0.0	31155.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.1	2.3
10°-20°	1605.5	5.2
20°-30°	2074.3	6.7
30°-40°	2694.1	8.6
40°-50°	3916.8	12.6
50°-60°	6250.0	20.1
60°-70°	8349.2	26.8
70°-80°	4813.0	15.4
80°-90°	720.9	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°	31155.0	100.0
0°-180°	31155.0	100.0

Coefficient of Utilization



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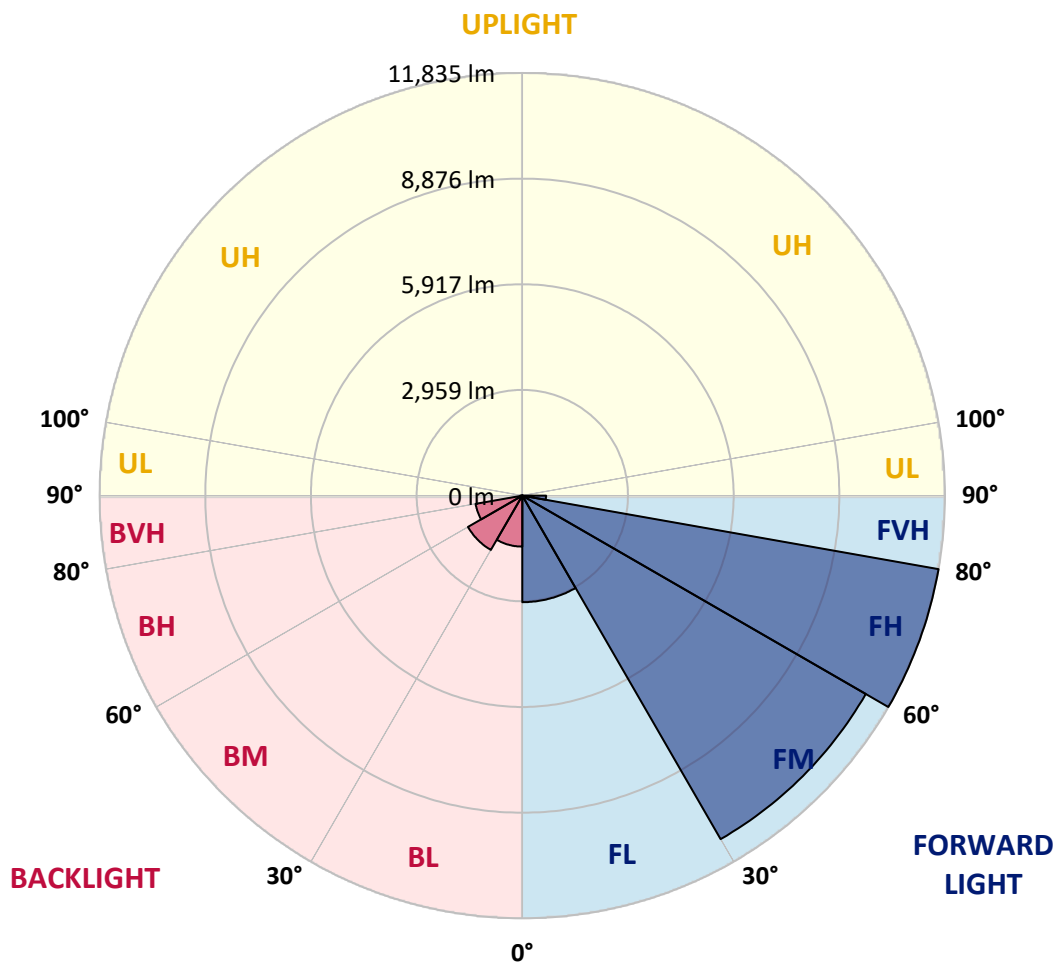
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2983.9	9.6			
FM	(30°-60°)	11105.1	35.6			
FH	(60°-80°)	11834.6	38.0			G4/12000
FVH	(80°-90°)	665.7	2.1			G4/750
BL	(0°-30°)	1427.1	4.6	B3/2500		
BM	(30°-60°)	1755.8	5.6	B2/2500		
BH	(60°-80°)	1327.6	4.3	B3/2500		G3/2500
BVH	(80°-90°)	55.2	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°	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4
2.5°	8929.1	8953.4	8946.5	8937.8	8923.9	8885.7	8823.1	8812.7	8772.7	8687.6	8581.6
5°	8791.9	8812.7	8814.4	8826.6	8844.0	8837.0	8791.9	8786.6	8727.6	8612.9	8435.7
7.5°	8321.0	8348.8	8409.6	8477.4	8538.2	8595.5	8609.4	8618.1	8581.6	8449.6	8213.3
10°	7791.0	7818.8	7846.6	7947.4	8096.8	8239.3	8357.5	8373.1	8381.8	8260.2	7971.7
12.5°	7203.8	7261.1	7320.2	7469.6	7669.4	7893.6	8102.1	8135.1	8194.2	8102.1	7763.2
15°	6705.1	6764.2	6849.3	6983.1	7224.6	7547.8	7841.4	7895.3	8011.7	7964.8	7568.6
17.5°	6359.3	6380.2	6439.3	6592.2	6852.8	7193.3	7586.0	7693.7	7879.7	7867.5	7401.8
20°	6086.5	6112.6	6149.1	6242.9	6514.0	6873.6	7348.0	7487.0	7738.9	7780.6	7236.8
22.5°	5971.9	5991.0	5985.8	6036.1	6220.3	6581.7	7106.5	7271.5	7613.8	7721.5	7083.9
25°	5978.8	5996.2	5970.1	5958.0	6067.4	6324.6	6854.5	7064.8	7513.0	7681.6	6944.9
27.5°	6095.2	6107.4	6058.7	6010.1	6018.8	6164.7	6646.0	6878.8	7427.9	7699.0	6828.5
30°	6251.6	6274.2	6242.9	6183.8	6119.6	6126.5	6512.2	6741.6	7387.9	7759.8	6772.9
32.5°	6453.2	6474.0	6460.1	6413.2	6329.8	6237.7	6479.2	6691.2	7391.4	7883.1	6760.7
35°	6665.1	6706.8	6729.4	6725.9	6658.2	6498.3	6609.5	6785.0	7474.8	8089.9	6831.9
37.5°	6904.9	6939.7	7037.0	7099.5	7037.0	6851.0	6903.2	7024.8	7659.0	8388.8	6988.3
40°	7137.7	7189.9	7332.3	7526.9	7502.6	7339.3	7351.5	7431.4	7983.9	8833.6	7294.1
42.5°	7381.0	7443.5	7692.0	7980.4	8037.8	7910.9	7943.9	8015.2	8446.1	9450.4	7818.8
45°	7693.7	7768.5	8074.3	8433.9	8659.8	8581.6	8675.4	8710.2	9064.6	10253.1	8510.4
47.5°	8096.8	8183.7	8560.8	9009.0	9328.8	9400.0	9563.3	9542.5	9830.9	11203.5	9406.9
50°	8776.2	8824.9	9181.1	9638.0	10077.6	10399.1	10576.3	10609.3	10781.3	12127.9	10409.5
52.5°	9584.2	9627.6	9884.8	10284.4	10835.2	11516.3	11954.1	11846.4	11888.1	13253.8	11582.3
55°	10492.9	10565.9	10729.2	10995.0	11709.2	12711.7	13590.9	13617.0	13154.8	14331.1	12706.5
57.5°	11196.6	11320.0	11599.7	11978.5	12883.7	14040.9	15222.4	15239.8	14649.0	15481.3	13947.1
60°	10842.1	10988.1	11627.5	12550.1	14424.9	16360.5	17171.9	17072.9	16103.3	16791.4	15460.5
62.5°	9313.1	9339.2	10268.8	11710.9	14899.2	19463.7	20073.6	19654.8	18044.2	18452.5	16998.2
65°	6027.5	6197.7	6934.4	8955.2	13340.7	21185.6	25157.6	24189.8	20765.1	20337.7	18285.7
67.5°	3805.2	3761.7	4067.5	5113.5	9175.8	19668.7	29496.2	29343.3	24323.6	21527.9	17978.1
69°	3155.3	3204.0	3308.2	3919.8	6314.2	16793.1	30008.7	31065.1	26048.9	21434.1	16860.9
70°	2861.7	2884.3	2993.7	3475.0	4872.0	14065.2	29167.8	31018.2	26726.6	21041.4	16051.2
72.5°	2270.9	2269.2	2456.9	2891.2	3641.8	8029.1	23950.0	26929.8	25969.0	19213.5	13262.5
75°	1725.4	1753.2	1959.9	2446.4	3355.2	4387.2	16713.2	20739.1	20740.8	15175.5	8275.8
77.5°	1244.1	1261.4	1503.0	2053.8	3160.6	3556.7	11132.3	14874.9	13983.6	6953.6	2601.1
80°	814.9	825.3	1009.5	1626.3	2849.5	3355.2	6600.8	9104.6	6595.6	1845.2	860.1
82.5°	446.5	498.7	616.8	1052.9	2286.6	3099.7	4011.9	4607.9	2474.2	821.8	448.3
85°	224.1	238.0	347.5	615.1	1494.3	2564.6	2793.9	2642.8	1277.1	408.3	232.8
87.5°	66.0	83.4	144.2	238.0	606.4	1336.2	1555.1	1395.2	491.7	147.7	48.7
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°	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4	8609.4
2.5°	8538.2	8506.9	8367.9	8242.8	8128.1	8006.5	7904.0	7813.6	7822.3	7824.1	7732.0
5°	8343.6	8272.3	8008.2	7761.5	7553.0	7288.9	7063.0	6917.1	6844.1	6746.8	6781.5
7.5°	8079.5	7942.2	7575.6	7165.5	6781.5	6439.3	6067.4	5812.0	5648.7	5490.6	5511.4
10°	7806.7	7586.0	7052.6	6510.5	6013.6	5466.2	4991.9	4585.3	4283.0	4170.1	4095.3
12.5°	7526.9	7236.8	6559.1	5838.1	5151.8	4496.7	3824.3	3388.2	3054.6	2877.3	2899.9
15°	7271.5	6918.8	6044.8	5165.7	4274.3	3494.2	2823.5	2408.2	2175.4	2126.7	2154.5
17.5°	7035.2	6573.0	5563.5	4512.3	3471.6	2620.2	2121.5	1886.9	1793.1	1767.1	1765.3
20°	6792.0	6279.4	5023.2	3813.9	2705.3	2031.2	1741.0	1631.5	1614.2	1624.6	1626.3
22.5°	6545.2	5916.3	4467.2	3120.6	2154.5	1661.1	1522.1	1492.5	1506.4	1530.8	1534.2
25°	6317.6	5596.6	3932.0	2512.5	1720.1	1459.5	1391.8	1391.8	1423.0	1459.5	1461.3
27.5°	6130.0	5287.3	3398.6	1994.7	1440.4	1313.6	1291.0	1303.1	1346.6	1374.4	1376.1
30°	5975.3	4998.8	2894.7	1598.5	1266.7	1197.2	1191.9	1212.8	1244.1	1270.1	1271.9
32.5°	5858.9	4745.2	2423.8	1343.1	1146.8	1108.5	1106.8	1122.4	1139.8	1146.8	1153.7
35°	5813.7	4534.9	1992.9	1181.5	1066.8	1042.5	1042.5	1040.8	1047.7	1051.2	1054.7
37.5°	5850.2	4373.3	1659.3	1077.3	1007.8	990.4	980.0	969.5	966.1	966.1	967.8
40°	6004.9	4288.2	1410.9	1009.5	966.1	940.0	920.9	908.7	896.6	900.0	903.5
42.5°	6333.3	4303.8	1242.3	964.3	929.6	893.1	865.3	851.4	842.7	853.1	851.4
45°	6856.3	4460.2	1134.6	933.0	893.1	846.2	820.1	806.2	806.2	821.8	827.1
47.5°	7587.8	4759.1	1077.3	908.7	865.3	809.7	783.6	773.2	776.7	802.7	804.5
50°	8480.8	5278.6	1066.8	896.6	851.4	783.6	754.1	743.7	752.3	780.1	783.6
52.5°	9466.0	5947.5	1117.2	898.3	839.2	768.0	729.8	714.1	722.8	745.4	752.3
55°	10633.6	6785.0	1247.5	905.2	821.8	759.3	712.4	677.6	688.1	703.7	705.4
57.5°	11825.6	7841.4	1476.9	907.0	807.9	743.7	682.8	637.7	637.7	648.1	653.3
60°	13281.6	8991.7	1779.2	908.7	809.7	721.1	642.9	592.5	585.5	590.8	592.5
62.5°	14727.2	9954.3	1829.6	903.5	827.1	698.5	599.4	547.3	535.2	533.4	529.9
65°	15364.9	9775.3	1499.5	879.2	846.2	684.6	564.7	503.9	483.0	476.1	476.1
67.5°	14325.9	8268.9	1127.7	846.2	834.0	670.7	531.7	467.4	443.1	429.2	429.2
69°	13349.4	7354.9	1013.0	823.6	802.7	648.1	510.8	448.3	418.7	403.1	397.9
70°	12595.3	6725.9	964.3	804.5	773.2	622.0	495.2	434.4	401.4	384.0	380.5
72.5°	10051.6	5276.9	844.4	731.5	658.5	523.0	439.6	390.9	359.7	340.6	335.3
75°	5792.9	2860.0	700.2	635.9	529.9	406.6	371.8	340.6	316.2	298.9	293.6
77.5°	1782.7	1105.1	507.4	502.1	389.2	314.5	297.1	285.0	267.6	248.5	245.0
80°	750.6	563.0	344.0	338.8	258.9	218.9	213.7	212.0	205.0	189.4	184.2
82.5°	411.8	318.0	239.8	208.5	156.4	126.8	132.1	133.8	128.6	112.9	102.5
85°	201.6	173.8	116.4	93.8	71.2	45.2	43.4	52.1	48.7	34.8	38.2
87.5°	40.0	48.7	31.3	13.9	7.0	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)