

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: P530054

Luminaire Tested: **GALN-SA5B-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21955 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

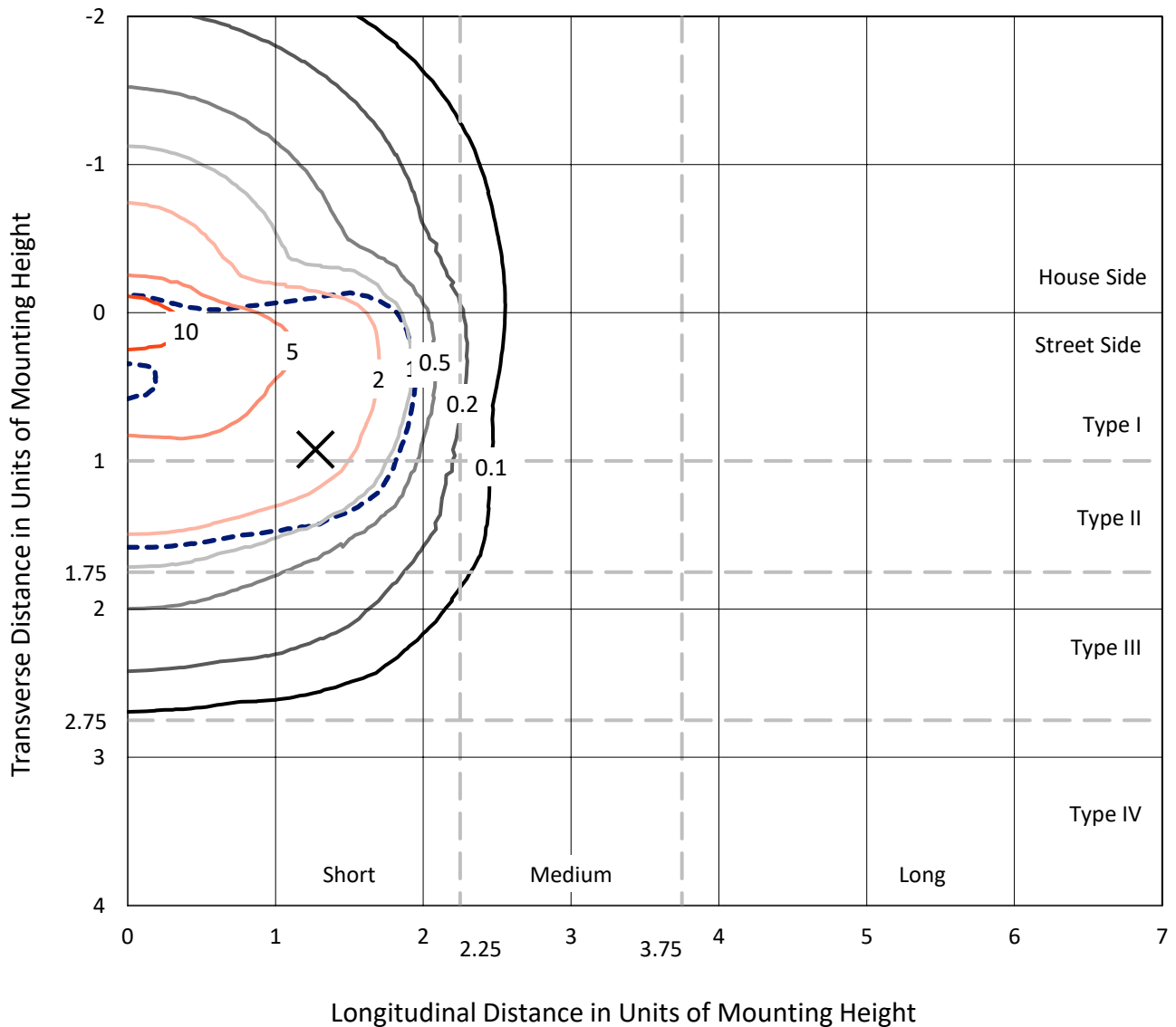
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

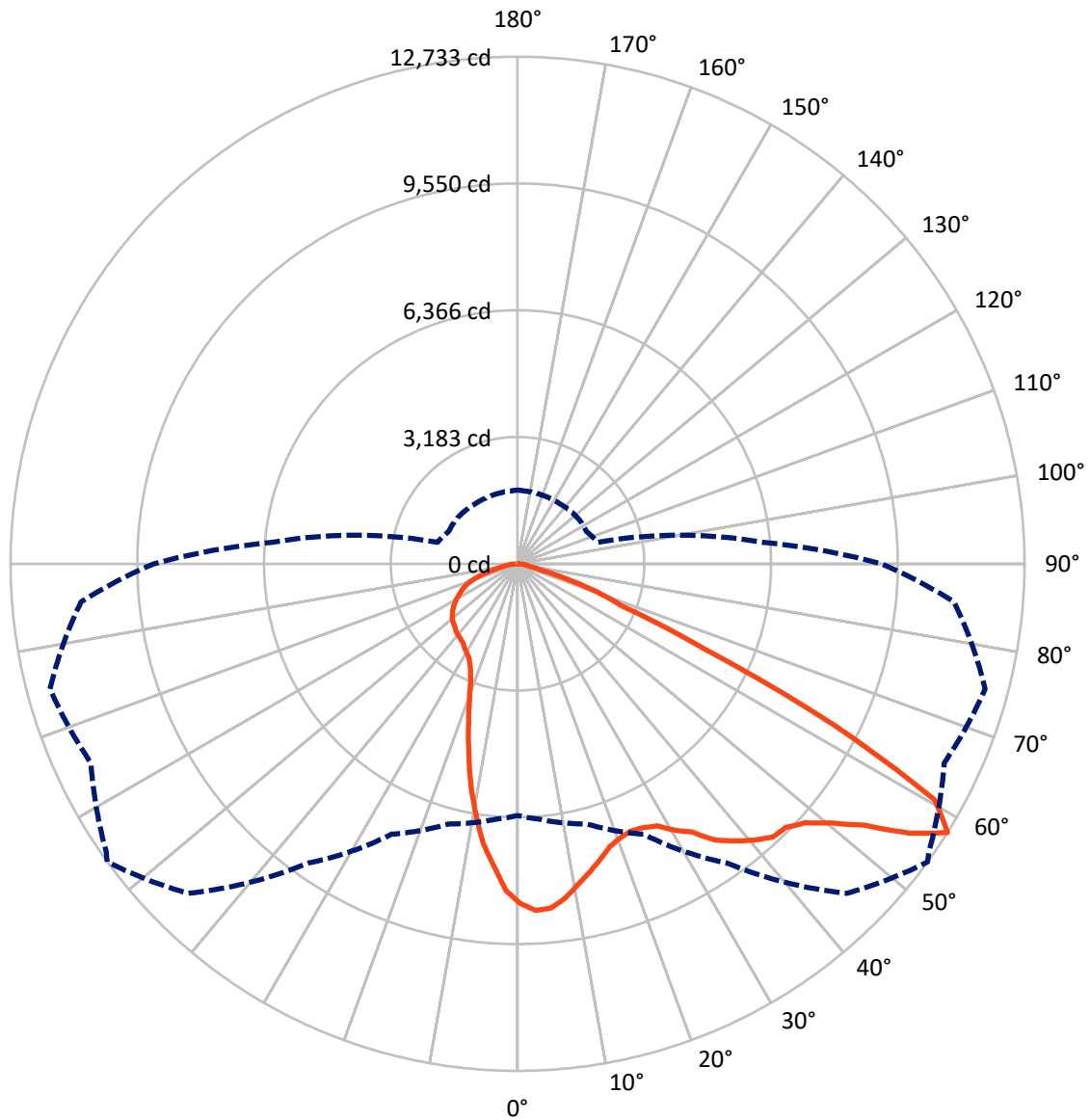
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6074.0	0.0	6074.0
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	15881.0	0.0	15881.0
	% Fixture	72.3	0.0	72.3
Total	Lumens	21955.0	0.0	21955.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	735.9	3.4
10°-20°	1704.0	7.8
20°-30°	2394.1	10.9
30°-40°	3347.0	15.2
40°-50°	4531.2	20.6
50°-60°	5519.2	25.1
60°-70°	2874.6	13.1
70°-80°	736.6	3.4
80°-90°	112.4	0.5
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°	21955.0	100.0
0°-180°	21955.0	100.0



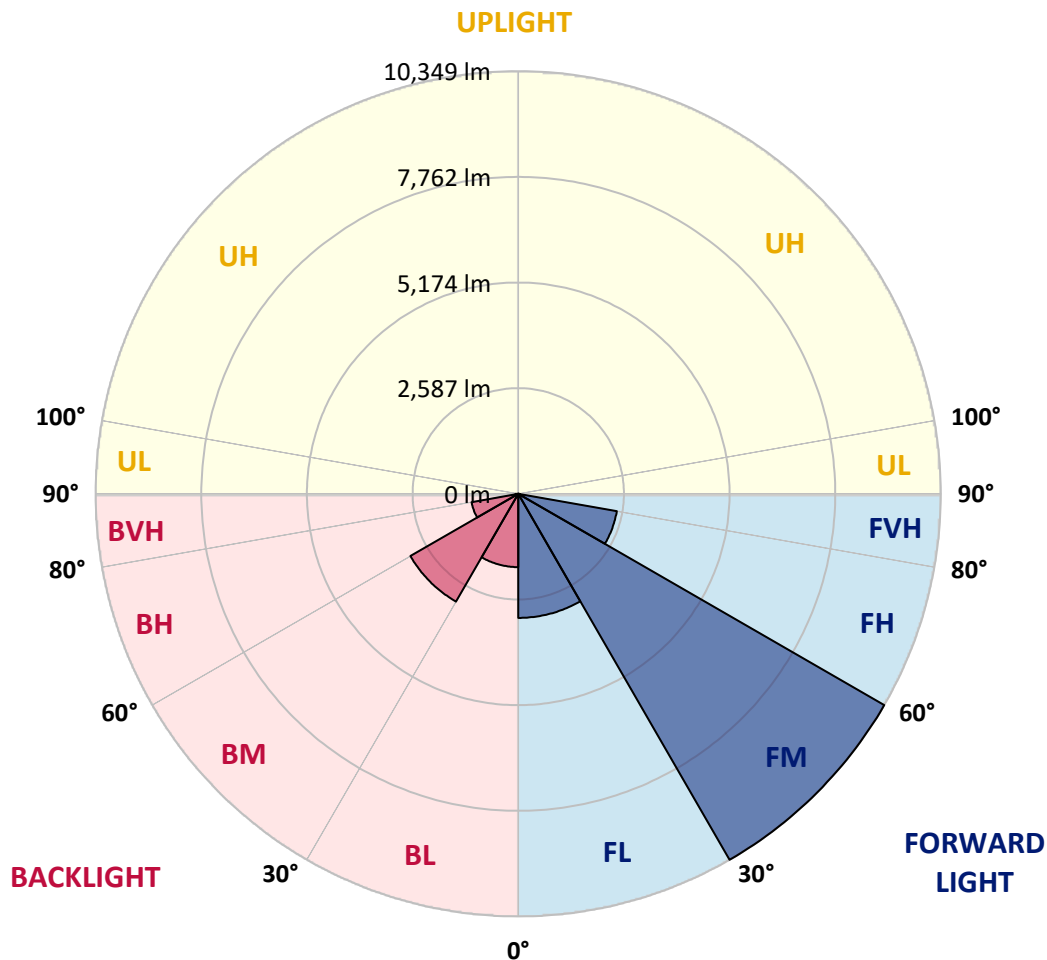
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3038.9	13.8			
FM (30°-60°)	10348.9	47.1			
FH (60°-80°)	2450.8	11.2			G2/5000
FVH (80°-90°)	42.5	0.2			G1/100
BL (0°-30°)	1795.2	8.2	B3/2500		
BM (30°-60°)	3048.5	13.9	B3/5000		
BH (60°-80°)	1160.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	69.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7
2.5°	8776.3	8742.5	8748.1	8793.3	8736.8	8714.3	8714.3	8604.2	8612.7	8536.5	8516.7
5°	8573.2	8494.1	8547.8	8615.5	8626.8	8649.4	8686.0	8657.8	8578.8	8497.0	8364.3
7.5°	8042.6	8113.2	8132.9	8180.9	8282.5	8375.6	8491.3	8412.3	8409.5	8327.7	8248.6
10°	7577.0	7534.7	7641.9	7712.5	7881.8	8037.0	8214.8	8206.3	8248.6	8155.5	8020.1
12.5°	7114.2	7080.3	7131.1	7292.0	7529.0	7754.8	7966.4	7887.4	8113.2	8096.3	7805.6
15°	6623.2	6648.6	6721.9	6871.5	7181.9	7452.8	7720.9	7723.7	7924.1	7991.8	7602.4
17.5°	6278.9	6250.7	6343.8	6566.7	6843.3	7167.8	7472.6	7534.7	7842.3	7881.8	7540.3
20°	6022.1	6061.6	6183.0	6295.8	6614.7	7007.0	7351.2	7373.8	7825.3	7932.6	7441.6
22.5°	5960.0	5937.4	5976.9	6160.4	6422.8	6848.9	7286.3	7371.0	7822.5	7915.6	7255.3
25°	5895.1	5968.5	5965.7	6149.1	6341.0	6721.9	7340.0	7433.1	7972.1	8003.1	7280.7
27.5°	6041.9	6033.4	6112.4	6126.5	6363.6	6755.8	7452.8	7523.4	8220.4	8195.0	7300.5
30°	6188.6	6146.3	6194.2	6360.7	6470.8	6950.5	7763.3	7757.6	8542.1	8525.2	7362.5
32.5°	6369.2	6349.4	6380.5	6527.2	6713.5	7210.2	8025.7	8192.2	8869.5	8976.7	7577.0
35°	6403.1	6484.9	6558.3	6755.8	7021.1	7630.6	8519.5	8657.8	9247.6	9583.4	7986.2
37.5°	6617.5	6648.6	6820.7	7170.6	7413.3	8192.2	8832.8	8920.3	9591.9	9972.9	8418.0
40°	6846.1	6882.8	7142.4	7509.3	7842.3	8559.1	9126.3	9154.5	9702.0	10272.0	8700.2
42.5°	7156.5	7190.4	7447.2	7907.2	8353.1	8872.3	9385.9	9416.9	9693.5	10616.3	9148.8
45°	7478.2	7560.1	7862.0	8384.1	8784.8	9239.2	9445.2	9572.1	9772.5	10923.9	9512.9
47.5°	7929.8	8005.9	8254.3	8765.1	9233.5	9560.9	9718.9	9843.1	9961.6	11192.0	9747.1
50°	8409.5	8423.6	8725.6	9188.4	9532.6	9924.9	10229.7	10272.0	10209.9	11502.4	10145.0
52.5°	8762.2	8807.4	9041.6	9493.1	10006.7	10489.3	10906.9	10952.1	10830.7	11618.1	10280.5
55°	8178.1	8152.7	8533.7	9134.7	10325.6	11330.2	11937.0	11970.8	11282.3	11976.5	10723.5
57.5°	6321.2	6442.6	6767.1	7492.3	9174.2	11702.7	12732.8	12611.4	11824.1	12157.1	11005.7
60°	4594.2	4566.0	4783.3	5268.6	6913.8	10085.7	12038.6	12162.7	11381.0	10957.7	9075.5
62.5°	3741.9	3702.4	3719.4	3736.3	4461.5	6693.7	8911.8	8909.0	8765.1	7876.1	6120.9
65°	2991.3	3084.4	3092.9	3219.9	3313.0	3998.7	5164.2	5440.8	4738.1	3885.9	2819.2
67.5°	2254.8	2220.9	2333.8	2785.3	2960.3	2886.9	2819.2	2850.2	2026.2	1461.8	1377.1
70°	1329.2	1315.0	1450.5	1941.5	2438.2	2294.3	2124.9	2127.8	1391.2	1021.6	1137.3
72.5°	728.1	725.2	753.5	984.9	1385.6	1439.2	1275.5	1315.0	829.7	826.8	888.9
75°	406.4	397.9	389.4	434.6	499.5	527.7	539.0	544.6	570.0	637.8	663.2
77.5°	149.6	143.9	143.9	166.5	211.6	265.3	335.8	341.5	403.5	462.8	488.2
80°	50.8	56.4	76.2	104.4	141.1	189.1	228.6	234.2	285.0	324.5	333.0
82.5°	31.0	33.9	50.8	73.4	101.6	132.6	169.3	172.1	211.6	237.0	248.3
85°	14.1	16.9	28.2	45.2	64.9	87.5	90.3	90.3	87.5	90.3	84.7
87.5°	0.0	0.0	5.6	5.6	5.6	8.5	11.3	8.5	14.1	16.9	16.9
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°	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7	8533.7
2.5°	8457.5	8426.4	8330.5	8245.8	8220.4	8107.5	7941.0	7960.8	7839.5	7895.9	7836.6
5°	8341.8	8237.3	7991.8	7887.4	7613.7	7489.5	7404.9	7193.2	7094.4	7074.7	6990.0
7.5°	8045.5	7980.5	7673.0	7390.8	7100.1	6851.8	6532.9	6315.6	6160.4	6118.0	5993.9
10°	7811.2	7667.3	7241.2	6812.3	6397.4	5965.7	5550.8	5226.3	5068.3	4884.8	4822.8
12.5°	7579.8	7362.5	6786.9	6236.6	5700.4	5155.8	4653.4	4258.4	3914.1	3832.2	3804.0
15°	7435.9	7057.8	6380.5	5717.3	4955.4	4244.3	3741.9	3482.3	3270.7	3183.2	3245.3
17.5°	7246.8	6806.6	5991.1	5107.8	4269.7	3615.0	3194.5	3033.6	2957.4	2965.9	2940.5
20°	7009.8	6569.6	5480.3	4554.7	3657.3	3135.2	2895.3	2836.1	2847.4	2867.1	2858.7
22.5°	6840.5	6281.7	5110.6	3990.3	3160.6	2870.0	2771.2	2728.9	2765.5	2782.5	2768.4
25°	6710.7	6036.2	4661.9	3490.8	2872.8	2720.4	2675.2	2672.4	2728.9	2751.4	2737.3
27.5°	6592.1	5807.6	4216.0	3109.8	2680.9	2604.7	2590.6	2624.4	2661.1	2683.7	2703.5
30°	6521.6	5632.7	3798.4	2790.9	2584.9	2548.2	2522.8	2553.9	2573.6	2596.2	2584.9
32.5°	6589.3	5508.5	3394.8	2610.3	2505.9	2469.2	2503.1	2483.3	2517.2	2537.0	2505.9
35°	6801.0	5398.4	3107.0	2514.4	2415.6	2429.7	2435.4	2426.9	2441.0	2424.1	2460.8
37.5°	7009.8	5358.9	2841.7	2432.5	2373.3	2373.3	2367.6	2350.7	2378.9	2373.3	2390.2
40°	7275.1	5384.3	2616.0	2345.1	2333.8	2328.1	2305.6	2302.7	2291.4	2294.3	2299.9
42.5°	7506.5	5440.8	2486.2	2288.6	2297.1	2308.4	2266.0	2232.2	2246.3	2218.1	2218.1
45°	7752.0	5491.6	2370.5	2249.1	2240.6	2237.8	2204.0	2184.2	2172.9	2175.7	2201.1
47.5°	8138.6	5564.9	2283.0	2195.5	2201.1	2158.8	2150.3	2124.9	2136.2	2153.2	2156.0
50°	8412.3	5720.1	2215.3	2133.4	2153.2	2124.9	2074.2	2062.9	2062.9	2091.1	2085.4
52.5°	8604.2	5937.4	2150.3	2065.7	2074.2	2051.6	2034.6	2009.2	1992.3	2031.8	2051.6
55°	9191.2	6298.7	2133.4	2009.2	2006.4	1983.8	1952.8	1927.4	1918.9	1924.6	1964.1
57.5°	9134.7	6185.8	2079.8	1910.5	1904.8	1873.8	1842.8	1834.3	1831.5	1837.1	1848.4
60°	7416.2	4568.8	1856.9	1797.6	1789.1	1783.5	1752.4	1718.6	1701.7	1718.6	1704.5
62.5°	4907.4	3059.0	1636.7	1662.1	1667.8	1653.7	1602.9	1569.0	1574.7	1594.4	1563.4
65°	2410.0	1797.6	1484.4	1552.1	1557.7	1518.2	1470.2	1430.7	1411.0	1427.9	1413.8
67.5°	1377.1	1374.3	1360.2	1430.7	1427.9	1388.4	1312.2	1278.4	1244.5	1250.1	1241.7
70°	1168.3	1190.9	1219.1	1261.4	1258.6	1213.4	1123.1	1097.7	1049.8	1044.1	1030.0
72.5°	920.0	959.5	1021.6	1052.6	1027.2	970.8	911.5	869.2	826.8	801.4	809.9
75°	682.9	739.4	773.2	793.0	753.5	722.4	674.5	623.7	572.9	550.3	541.8
77.5°	496.7	513.6	544.6	558.8	533.4	502.3	474.1	423.3	375.3	344.3	335.8
80°	347.1	358.4	381.0	381.0	381.0	366.9	330.2	279.4	248.3	220.1	214.5
82.5°	242.7	254.0	276.6	265.3	262.4	245.5	222.9	183.4	149.6	129.8	124.2
85°	84.7	93.1	112.9	135.5	143.9	141.1	127.0	101.6	79.0	64.9	59.3
87.5°	19.8	19.8	22.6	19.8	19.8	22.6	19.8	19.8	19.8	14.1	11.3
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)