

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: P530080

Luminaire Tested: **GALN-SA5B-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530080
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-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 22457 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

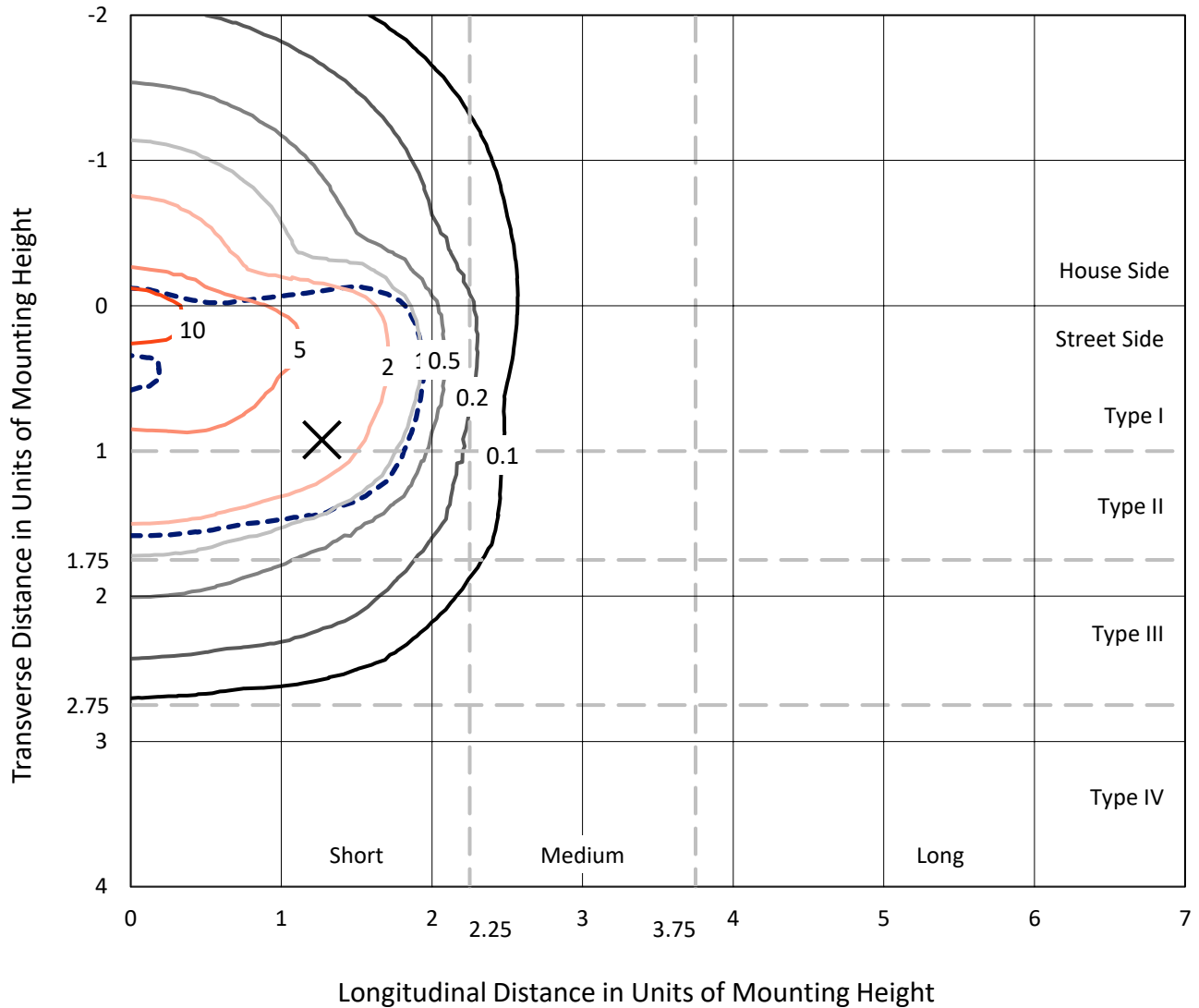
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

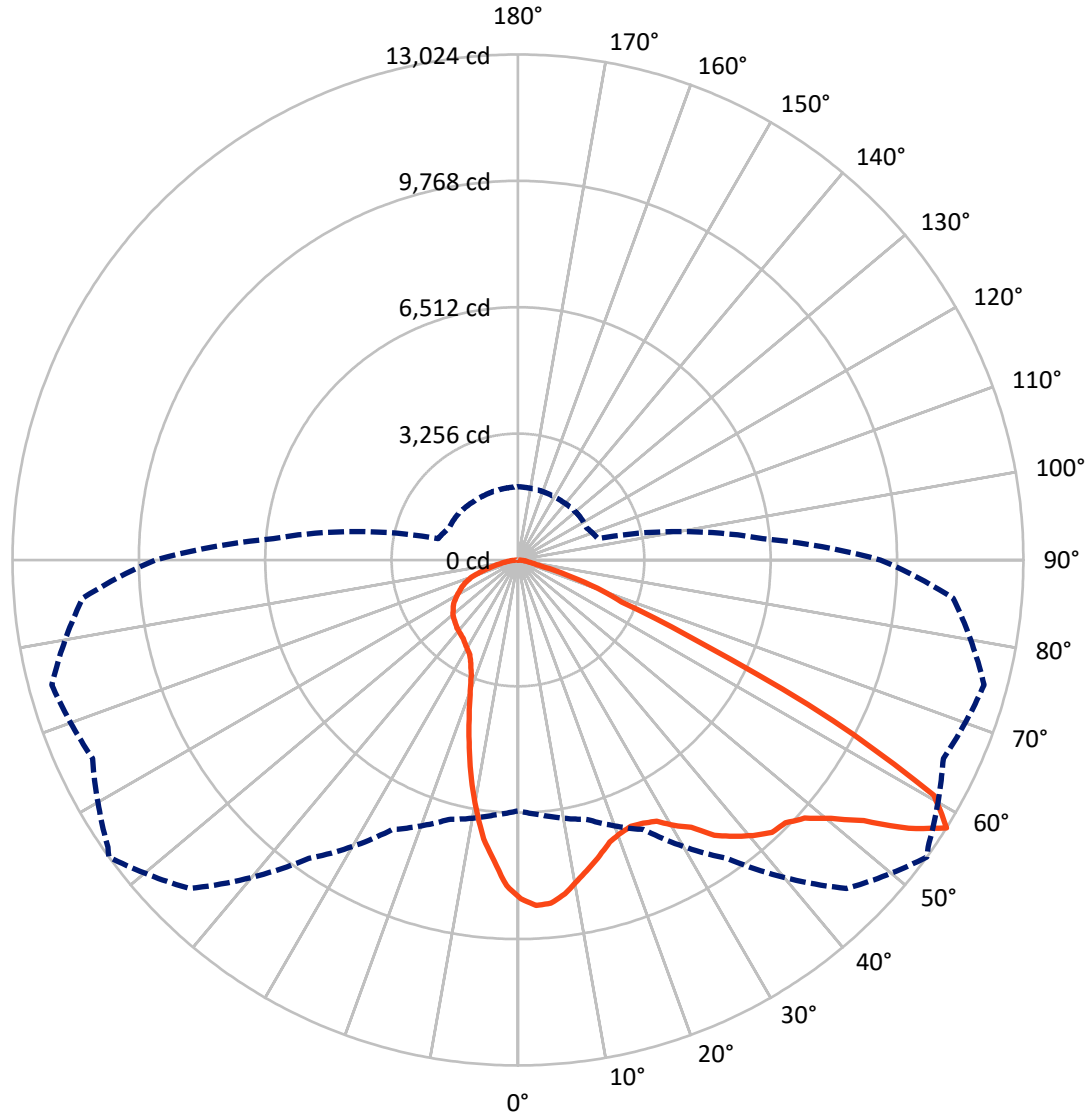
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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	6212.9	0.0	6212.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	16244.1	0.0	16244.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	22457.0	0.0	22457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.8	3.4
10°-20°	1742.9	7.8
20°-30°	2448.9	10.9
30°-40°	3423.5	15.2
40°-50°	4634.8	20.6
50°-60°	5645.4	25.1
60°-70°	2940.4	13.1
70°-80°	753.4	3.4
80°-90°	114.9	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°	22457.0	100.0
0°-180°	22457.0	100.0

Coefficient of Utilization



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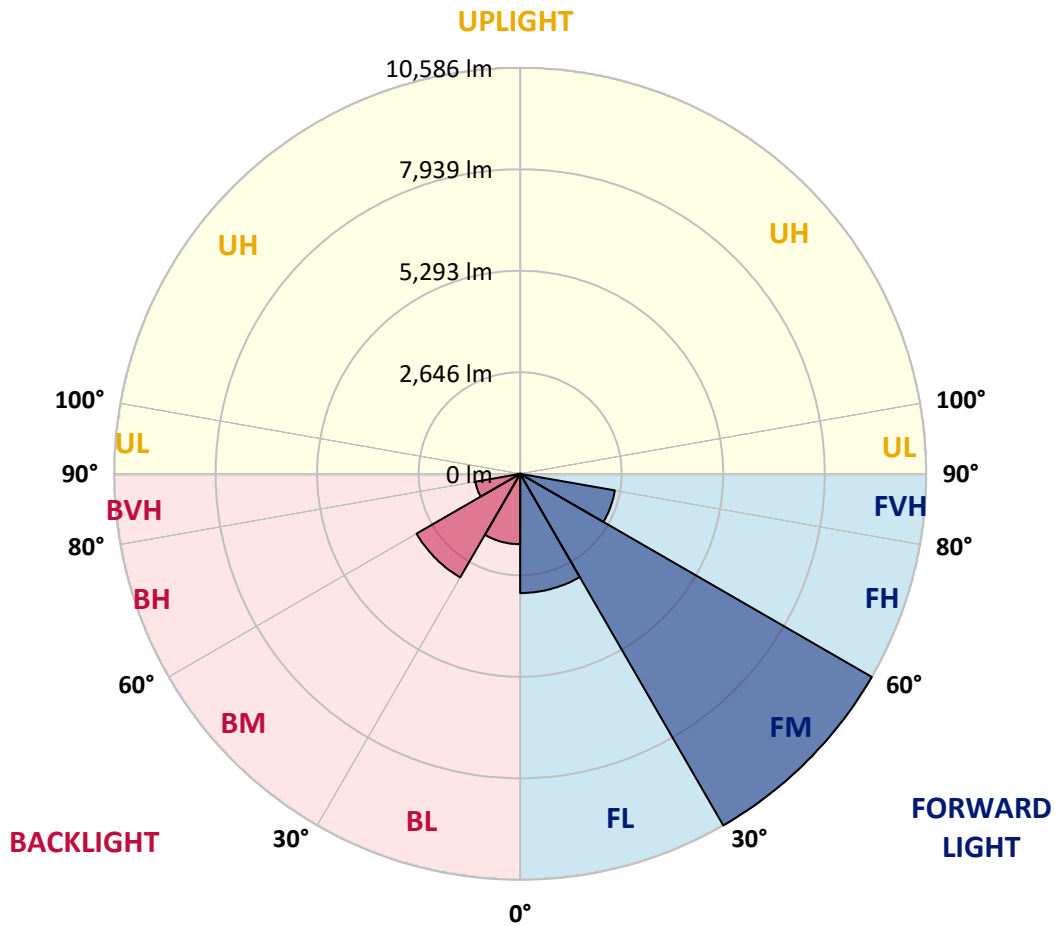
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3108.4	13.8			
FM (30°-60°)	10585.5	47.1			
FH (60°-80°)	2506.8	11.2			G2/5000
FVH (80°-90°)	43.4	0.2			G1/100
BL (0°-30°)	1836.2	8.2	B3/2500		
BM (30°-60°)	3118.2	13.9	B3/5000		
BH (60°-80°)	1187.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	71.5	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°	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8
2.5°	8977.0	8942.4	8948.2	8994.3	8936.6	8913.5	8913.5	8800.9	8809.6	8731.7	8711.5
5°	8769.2	8688.4	8743.2	8812.5	8824.0	8847.1	8884.6	8855.8	8775.0	8691.3	8555.6
7.5°	8226.5	8298.7	8318.9	8368.0	8471.9	8567.1	8685.5	8604.7	8601.8	8518.1	8437.2
10°	7750.3	7707.0	7816.6	7888.8	8062.0	8220.8	8402.6	8393.9	8437.2	8342.0	8203.4
12.5°	7276.9	7242.2	7294.2	7458.7	7701.2	7932.1	8148.6	8067.8	8298.7	8281.4	7984.1
15°	6774.6	6800.6	6875.6	7028.6	7346.1	7623.2	7897.5	7900.4	8105.3	8174.6	7776.2
17.5°	6422.5	6393.6	6488.9	6716.9	6999.8	7331.7	7643.5	7707.0	8021.6	8062.0	7712.7
20°	6159.8	6200.2	6324.3	6439.8	6766.0	7167.2	7519.3	7542.4	8004.3	8114.0	7611.7
22.5°	6096.3	6073.2	6113.6	6301.2	6569.7	7005.5	7452.9	7539.5	8001.4	8096.6	7421.2
25°	6029.9	6104.9	6102.1	6289.7	6486.0	6875.6	7507.8	7603.0	8154.4	8186.1	7447.2
27.5°	6180.0	6171.3	6252.2	6266.6	6509.1	6910.3	7623.2	7695.4	8408.4	8382.4	7467.4
30°	6330.1	6286.8	6335.9	6506.2	6618.7	7109.5	7940.8	7935.0	8737.4	8720.1	7530.9
32.5°	6514.8	6494.6	6526.4	6676.5	6867.0	7375.0	8209.2	8379.5	9072.3	9182.0	7750.3
35°	6549.5	6633.2	6708.2	6910.3	7181.6	7805.1	8714.3	8855.8	9459.1	9802.6	8168.8
37.5°	6768.8	6800.6	6976.7	7334.6	7582.8	8379.5	9034.7	9124.2	9811.2	10200.9	8610.4
40°	7002.7	7040.2	7305.7	7681.0	8021.6	8754.8	9334.9	9363.8	9923.8	10506.9	8899.1
42.5°	7320.2	7354.8	7617.5	8088.0	8544.0	9075.2	9600.5	9632.3	9915.1	10859.0	9358.0
45°	7649.2	7732.9	8041.8	8575.8	8985.7	9450.4	9661.1	9791.0	9996.0	11173.6	9730.4
47.5°	8111.1	8189.0	8443.0	8965.5	9444.6	9779.5	9941.1	10068.1	10189.3	11447.9	9970.0
50°	8601.8	8616.2	8925.1	9398.4	9750.6	10151.8	10463.6	10506.9	10443.4	11765.4	10377.0
52.5°	8962.6	9008.8	9248.3	9710.2	10235.5	10729.1	11156.3	11202.5	11078.4	11883.7	10515.5
55°	8365.1	8339.1	8728.8	9343.6	10561.7	11589.3	12209.9	12244.5	11540.2	12250.3	10968.7
57.5°	6465.8	6589.9	6921.8	7663.7	9384.0	11970.3	13023.9	12899.8	12094.4	12435.0	11257.4
60°	4699.2	4670.4	4892.6	5389.1	7071.9	10316.4	12313.8	12440.8	11641.3	11208.3	9283.0
62.5°	3827.5	3787.1	3804.4	3821.7	4563.6	6846.8	9115.6	9112.7	8965.5	8056.2	6260.8
65°	3059.7	3154.9	3163.6	3293.5	3388.8	4090.2	5282.3	5565.2	4846.4	3974.7	2883.6
67.5°	2306.3	2271.7	2387.1	2849.0	3027.9	2952.9	2883.6	2915.4	2072.5	1495.2	1408.6
70°	1359.5	1345.1	1483.7	1985.9	2493.9	2346.7	2173.5	2176.4	1423.0	1044.9	1163.3
72.5°	744.7	741.8	770.7	1007.4	1417.3	1472.1	1304.7	1345.1	848.6	845.7	909.2
75°	415.7	407.0	398.3	444.5	510.9	539.8	551.3	557.1	583.1	652.3	678.3
77.5°	153.0	147.2	147.2	170.3	216.5	271.3	343.5	349.3	412.8	473.4	499.4
80°	52.0	57.7	77.9	106.8	144.3	193.4	233.8	239.6	291.5	331.9	340.6
82.5°	31.8	34.6	52.0	75.0	103.9	135.7	173.2	176.1	216.5	242.5	254.0
85°	14.4	17.3	28.9	46.2	66.4	89.5	92.4	92.4	89.5	92.4	86.6
87.5°	0.0	0.0	5.8	5.8	5.8	8.7	11.5	8.7	14.4	17.3	17.3
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°	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8	8728.8
2.5°	8650.8	8619.1	8521.0	8434.4	8408.4	8292.9	8122.6	8142.8	8018.7	8076.4	8015.8
5°	8532.5	8425.7	8174.6	8067.8	7787.8	7660.8	7574.2	7357.7	7256.7	7236.5	7149.9
7.5°	8229.4	8163.0	7848.4	7559.7	7262.4	7008.4	6682.2	6460.0	6301.2	6257.9	6130.9
10°	7989.8	7842.6	7406.8	6968.0	6543.7	6102.1	5677.7	5345.8	5184.2	4996.5	4933.0
12.5°	7753.1	7530.9	6942.0	6379.2	5830.7	5273.6	4759.8	4355.7	4003.6	3919.9	3891.0
15°	7605.9	7219.1	6526.4	5848.1	5068.7	4341.3	3827.5	3561.9	3345.5	3256.0	3319.5
17.5°	7412.5	6962.2	6128.0	5224.6	4367.3	3697.6	3267.5	3103.0	3025.1	3033.7	3007.7
20°	7170.1	6719.8	5605.6	4658.8	3740.9	3206.9	2961.5	2900.9	2912.5	2932.7	2924.0
22.5°	6996.9	6425.4	5227.5	4081.5	3232.9	2935.6	2834.5	2791.2	2828.8	2846.1	2831.7
25°	6864.1	6174.2	4768.5	3570.6	2938.5	2782.6	2736.4	2733.5	2791.2	2814.3	2799.9
27.5°	6742.9	5940.4	4312.4	3180.9	2742.2	2664.2	2649.8	2684.4	2722.0	2745.1	2765.3
30°	6670.7	5761.5	3885.2	2854.7	2644.0	2606.5	2580.5	2612.3	2632.5	2655.6	2644.0
32.5°	6740.0	5634.4	3472.5	2670.0	2563.2	2525.7	2560.3	2540.1	2574.8	2595.0	2563.2
35°	6956.5	5521.9	3178.0	2571.9	2470.8	2485.3	2491.1	2482.4	2496.8	2479.5	2517.0
37.5°	7170.1	5481.5	2906.7	2488.2	2427.5	2427.5	2421.8	2404.5	2433.3	2427.5	2444.9
40°	7441.4	5507.4	2675.8	2398.7	2387.1	2381.4	2358.3	2355.4	2343.8	2346.7	2352.5
42.5°	7678.1	5565.2	2543.0	2341.0	2349.6	2361.2	2317.9	2283.2	2297.7	2268.8	2268.8
45°	7929.2	5617.1	2424.7	2300.5	2291.9	2289.0	2254.4	2234.2	2222.6	2225.5	2251.5
47.5°	8324.7	5692.2	2335.2	2245.7	2251.5	2208.2	2199.5	2173.5	2185.1	2202.4	2205.3
50°	8604.7	5850.9	2265.9	2182.2	2202.4	2173.5	2121.6	2110.0	2110.0	2138.9	2133.1
52.5°	8800.9	6073.2	2199.5	2112.9	2121.6	2098.5	2081.2	2055.2	2037.9	2078.3	2098.5
55°	9401.3	6442.7	2182.2	2055.2	2052.3	2029.2	1997.5	1971.5	1962.8	1968.6	2009.0
57.5°	9343.6	6327.2	2127.4	1954.2	1948.4	1916.6	1884.9	1876.2	1873.3	1879.1	1890.7
60°	7585.7	4673.2	1899.3	1838.7	1830.0	1824.3	1792.5	1757.9	1740.6	1757.9	1743.4
62.5°	5019.6	3129.0	1674.2	1700.1	1705.9	1691.5	1639.5	1604.9	1610.7	1630.9	1599.1
65°	2465.1	1838.7	1518.3	1587.6	1593.3	1552.9	1503.9	1463.5	1443.3	1460.6	1446.1
67.5°	1408.6	1405.7	1391.3	1463.5	1460.6	1420.2	1342.2	1307.6	1272.9	1278.7	1270.1
70°	1195.0	1218.1	1247.0	1290.3	1287.4	1241.2	1148.8	1122.8	1073.8	1068.0	1053.6
72.5°	941.0	981.4	1044.9	1076.7	1050.7	993.0	932.3	889.0	845.7	819.8	828.4
75°	698.5	756.3	790.9	811.1	770.7	738.9	689.9	637.9	586.0	562.9	554.2
77.5°	508.0	525.3	557.1	571.5	545.5	513.8	484.9	433.0	383.9	352.2	343.5
80°	355.0	366.6	389.7	389.7	389.7	375.2	337.7	285.8	254.0	225.1	219.4
82.5°	248.2	259.8	282.9	271.3	268.4	251.1	228.0	187.6	153.0	132.8	127.0
85°	86.6	95.3	115.5	138.6	147.2	144.3	129.9	103.9	80.8	66.4	60.6
87.5°	20.2	20.2	23.1	20.2	20.2	23.1	20.2	20.2	20.2	14.4	11.5
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)