

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: P647045

Luminaire Tested: **GALN-SA7C-835-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38717.8 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

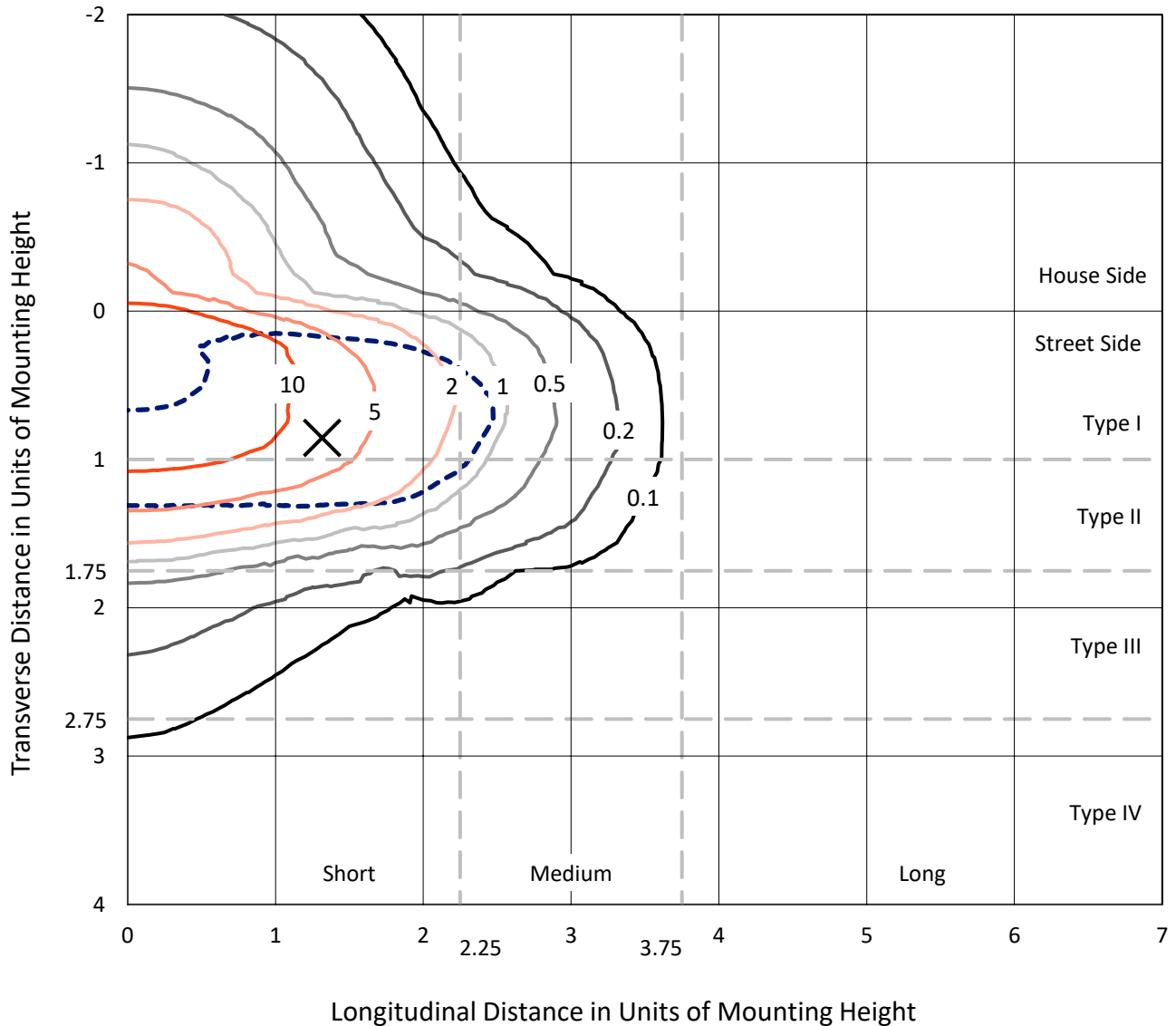
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

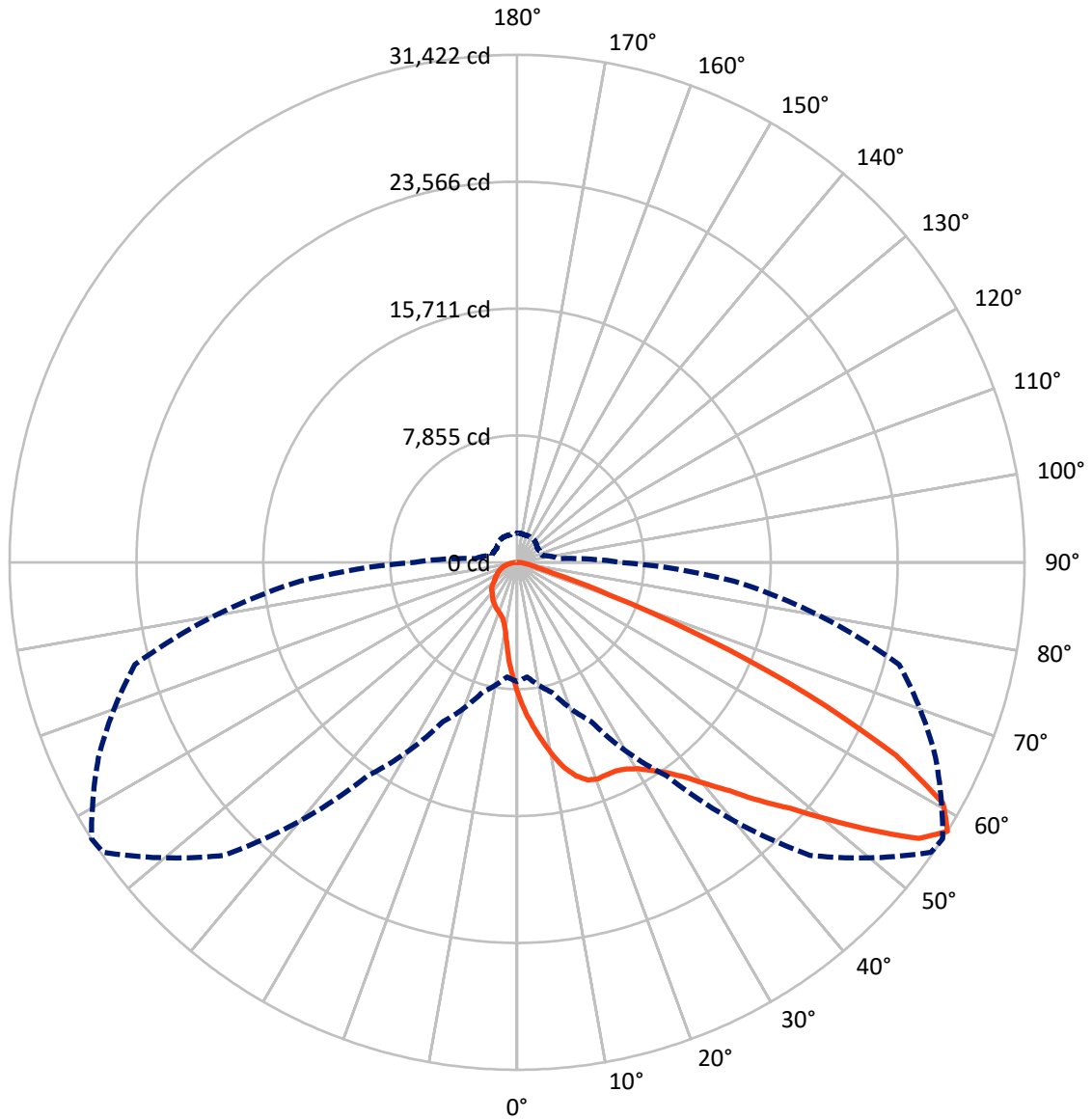
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5887.9	0.0	5887.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	32829.9	0.0	32829.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	38717.8	0.0	38717.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	781.8	2.0
10°-20°	2303.9	6.0
20°-30°	3825.7	9.9
30°-40°	5762.6	14.9
40°-50°	8652.0	22.3
50°-60°	9697.9	25.0
60°-70°	5675.7	14.7
70°-80°	1678.8	4.3
80°-90°	339.3	0.9
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°	38717.8	100.0
0°-180°	38717.8	100.0

Coefficient of Utilization

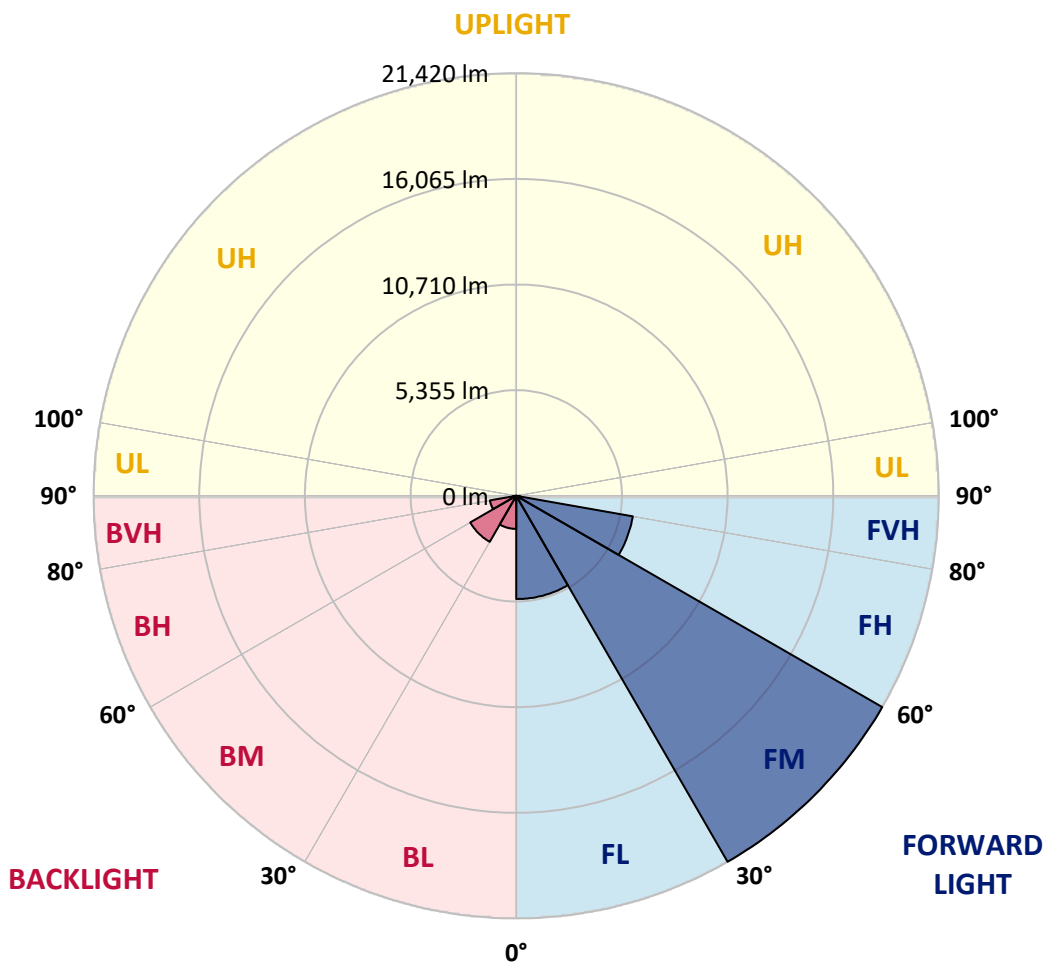


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5233.8	13.5			
FM (30°-60°)	21420.4	55.3			
FH (60°-80°)	5999.7	15.5			G3/7500
FVH (80°-90°)	176.1	0.5			G2/225
BL (0°-30°)	1677.7	4.3	B3/2500		
BM (30°-60°)	2692.2	7.0	B3/5000		
BH (60°-80°)	1354.8	3.5	B3/2500		G3/2500
BVH (80°-90°)	163.3	0.4			G2/225
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°	55°	57°	65°	75°	85°
0°	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2
2.5°	10107.3	9997.1	9910.2	9833.9	9734.3	9465.1	9195.9	9191.7	8977.6	8647.1	8307.9
5°	11754.1	11605.7	11624.8	11387.4	11150.0	10760.1	10190.0	10160.3	9704.7	9085.8	8456.3
7.5°	12826.5	12828.6	12769.2	12633.6	12377.1	11934.2	11287.8	11141.5	10507.9	9569.0	8625.8
10°	12771.4	12828.6	12928.2	13044.8	13123.2	12904.9	12315.7	12137.7	11313.3	10153.9	8814.5
12.5°	12038.1	12127.1	12269.1	12561.5	13034.1	13394.5	13193.1	13049.0	12245.7	10736.7	9022.2
15°	11580.3	11633.3	11711.6	11908.8	12417.4	13280.0	13801.4	13725.1	13125.3	11395.9	9255.3
17.5°	11440.4	11493.3	11518.8	11639.6	12002.1	12885.8	14040.8	14176.5	13905.2	12002.1	9490.6
20°	11580.3	11605.7	11605.7	11677.7	11961.7	12654.8	14030.3	14303.7	14545.2	12729.0	9711.0
22.5°	11946.9	11957.5	11942.7	11968.1	12180.0	12718.3	13930.7	14269.8	15062.4	13345.7	9882.6
25°	12542.5	12559.4	12461.9	12402.6	12557.3	12998.1	13985.8	14297.3	15467.2	13934.9	9997.1
27.5°	13218.5	13239.7	13121.0	12983.3	13055.4	13343.6	14201.9	14481.7	15770.2	14515.6	10069.1
30°	14047.3	14055.7	13856.5	13691.1	13644.6	13858.6	14570.7	14831.4	16147.5	15200.1	10177.3
32.5°	14895.0	14958.6	14702.1	14469.0	14390.5	14456.3	15115.4	15367.6	16596.9	15935.6	10351.0
35°	16047.9	16058.5	15751.2	15467.2	15208.6	15293.4	15812.7	15994.9	17217.8	16785.5	10596.9
37.5°	17487.0	17584.5	17160.6	16630.8	16312.9	16189.9	16656.2	16855.4	18088.9	17828.2	10967.8
40°	19085.0	19121.0	18758.6	18428.0	17847.2	17491.2	17813.3	18029.5	19163.4	19072.2	11398.0
42.5°	20089.6	20168.0	20195.5	20161.6	19725.0	19127.4	19250.3	19352.0	20435.0	20240.0	11838.8
45°	20428.6	20545.2	20939.5	21774.4	21821.1	21231.9	20945.8	21043.3	21821.1	21418.4	12260.6
47.5°	19867.1	20066.3	20793.2	22505.6	23787.9	23832.4	22969.8	22755.7	23084.2	22395.4	12565.7
50°	18415.2	18457.7	19570.3	22050.0	24709.8	26318.4	25426.1	25027.7	24283.8	23118.2	12775.6
52.5°	16168.7	16217.5	17150.0	19932.8	24141.8	28056.3	28300.0	27587.9	25502.5	23679.8	12913.4
55°	12002.1	12283.9	13309.7	15999.2	21450.2	27893.1	30584.7	30179.9	26975.4	24124.9	13129.5
57.5°	7379.7	7121.1	8337.6	10885.1	16132.7	25650.8	31290.5	31421.9	28596.7	24497.9	13492.0
60°	3395.2	3446.1	3948.4	5614.2	9833.9	20066.3	29472.0	30302.8	29493.3	24485.1	13583.1
62.5°	2339.8	2293.2	2166.0	2464.8	4484.6	12690.8	24894.2	26301.4	27696.0	23724.3	13220.6
65°	2091.8	2045.2	1799.3	1716.7	2060.0	5531.6	18097.3	19873.4	23319.5	21804.1	12317.8
67.5°	1954.1	1890.5	1636.2	1475.1	1470.9	2202.0	10671.0	12809.5	17296.2	18434.3	10673.2
70°	1810.0	1759.1	1506.9	1328.8	1252.6	1384.0	4690.2	6139.8	11230.6	13284.2	8314.3
72.5°	1665.8	1606.5	1379.7	1189.0	1089.4	1036.4	1797.2	2337.6	6345.4	7964.6	5097.1
75°	1456.0	1426.3	1233.5	1076.6	968.6	837.2	1140.2	1301.3	3034.9	3658.0	2558.1
77.5°	1273.7	1241.9	1095.7	941.0	862.6	680.3	809.6	883.8	1280.1	1483.6	1155.1
80°	932.6	964.3	924.0	830.8	769.3	534.1	544.7	606.1	760.8	841.4	705.7
82.5°	591.3	650.7	712.1	640.0	582.9	421.7	377.2	400.6	519.3	551.1	313.7
85°	248.0	252.2	413.3	389.9	332.8	250.1	226.8	239.5	277.7	290.3	146.3
87.5°	95.4	93.3	146.3	135.6	103.8	72.0	72.0	80.6	110.2	101.7	46.6
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°	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2	8134.2
2.5°	8161.7	8011.3	7712.4	7341.5	7070.3	6765.0	6495.9	6303.0	6231.0	6197.1	6133.5
5°	8155.3	7858.7	7239.8	6591.3	6069.9	5535.8	5084.4	4791.9	4766.5	4571.5	4552.4
7.5°	8157.5	7703.9	6718.5	5764.7	4969.9	4423.2	4050.1	3952.7	3836.1	3806.4	3821.2
10°	8163.9	7506.9	6158.9	4946.6	4177.3	3819.1	3679.2	3641.1	3645.3	3658.0	3660.1
12.5°	8172.3	7316.1	5578.2	4325.7	3732.2	3583.9	3569.0	3603.0	3639.0	3666.6	3672.9
15°	8182.9	7097.8	5012.3	3825.5	3509.7	3497.0	3545.7	3603.0	3653.8	3694.0	3700.5
17.5°	8170.2	6843.5	4537.6	3518.2	3386.8	3448.3	3528.7	3600.8	3647.4	3685.6	3689.8
20°	8140.5	6559.5	4079.8	3302.0	3310.4	3410.0	3497.0	3564.8	3615.7	3634.8	3649.6
22.5°	8026.1	6220.4	3681.4	3134.6	3219.3	3357.1	3460.9	3501.2	3443.9	3403.7	3414.3
25°	7831.1	5779.6	3310.4	2998.9	3136.7	3282.9	3388.9	3291.4	3244.8	3227.8	3236.3
27.5°	7587.3	5296.3	3030.7	2856.9	3030.7	3200.3	3170.6	3153.6	3132.5	3104.9	3111.3
30°	7324.6	4823.7	2793.4	2746.7	2916.3	3013.8	3026.5	3054.0	3030.7	2988.3	3005.3
32.5°	7080.8	4378.6	2613.2	2653.4	2835.7	2820.9	2916.3	2948.1	2839.9	2698.0	2704.3
35°	6873.1	3965.3	2477.6	2562.3	2698.0	2704.3	2799.7	2689.4	2572.9	2505.1	2509.4
37.5°	6716.3	3643.2	2388.5	2483.9	2522.0	2602.6	2551.7	2494.5	2479.7	2433.0	2435.1
40°	6623.1	3361.3	2331.3	2422.4	2416.1	2471.2	2308.0	2365.2	2386.4	2371.6	2373.7
42.5°	6529.8	3162.1	2272.0	2337.6	2335.5	2227.5	2191.5	2240.2	2295.3	2301.6	2297.4
45°	6455.6	3007.4	2210.5	2208.4	2250.8	2081.2	2070.6	2100.3	2178.7	2216.8	2214.7
47.5°	6373.0	2878.1	2117.2	2057.9	2070.6	1990.1	1973.2	1985.8	2081.2	2142.7	2159.7
50°	6269.1	2748.8	2000.7	1920.2	1867.1	1905.4	1909.6	1911.7	2007.1	2077.0	2091.8
52.5°	6186.5	2651.3	1867.1	1807.8	1744.2	1829.0	1860.8	1865.0	1922.3	1979.5	1990.1
55°	6235.2	2596.3	1735.8	1693.4	1636.2	1750.6	1812.1	1820.6	1833.2	1875.7	1882.0
57.5°	6381.4	2609.0	1629.8	1574.7	1532.3	1657.4	1761.2	1767.5	1759.1	1810.0	1818.4
60°	6425.9	2602.6	1551.4	1443.3	1417.9	1557.8	1687.1	1699.7	1697.6	1771.8	1786.6
62.5°	6239.4	2522.0	1473.0	1333.1	1316.1	1456.0	1583.1	1634.0	1644.6	1750.6	1769.7
65°	5800.7	2356.8	1369.2	1216.5	1216.5	1347.9	1483.6	1553.5	1583.1	1725.2	1746.4
67.5°	5222.1	2161.8	1263.1	1116.9	1112.6	1244.1	1377.6	1449.6	1496.3	1689.2	1701.9
70°	4334.1	1898.9	1131.7	1008.8	1008.8	1127.5	1248.3	1335.2	1403.1	1621.4	1621.4
72.5°	2969.2	1578.9	972.8	885.9	888.0	998.2	1121.2	1218.7	1299.2	1485.7	1489.9
75°	1877.8	1233.5	799.0	754.5	763.0	866.9	994.0	1095.7	1256.8	1468.8	1475.1
77.5°	998.2	866.9	635.8	625.2	635.8	731.2	873.2	1013.0	1261.0	1273.7	1252.6
80°	646.4	614.7	502.3	481.1	485.3	589.2	777.8	962.2	1013.0	1025.8	979.1
82.5°	351.8	389.9	356.0	334.9	334.9	459.9	663.4	765.1	726.9	604.0	576.4
85°	150.5	182.3	184.4	161.1	154.7	284.0	445.1	417.5	387.8	370.9	366.7
87.5°	42.4	59.4	59.4	44.5	33.9	78.4	89.0	25.4	0.0	2.1	4.2
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)