

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: P456853

Luminaire Tested: **GALN-SA8A-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26920 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

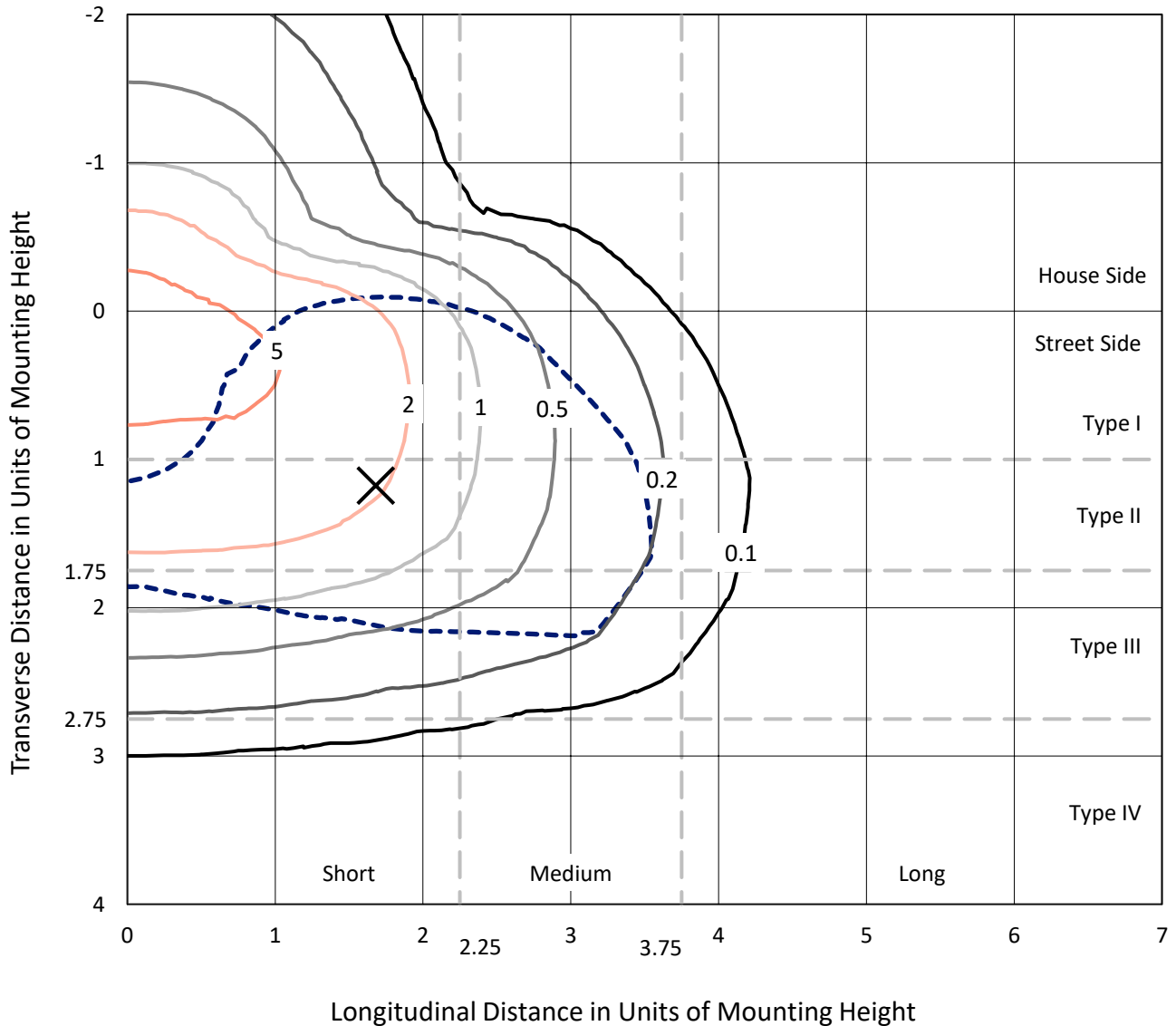
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456853
 CATALOG NUMBER: GALN-SA8A-827-U-T3

Iso-Footcandle Lines of Horizontal Illumination

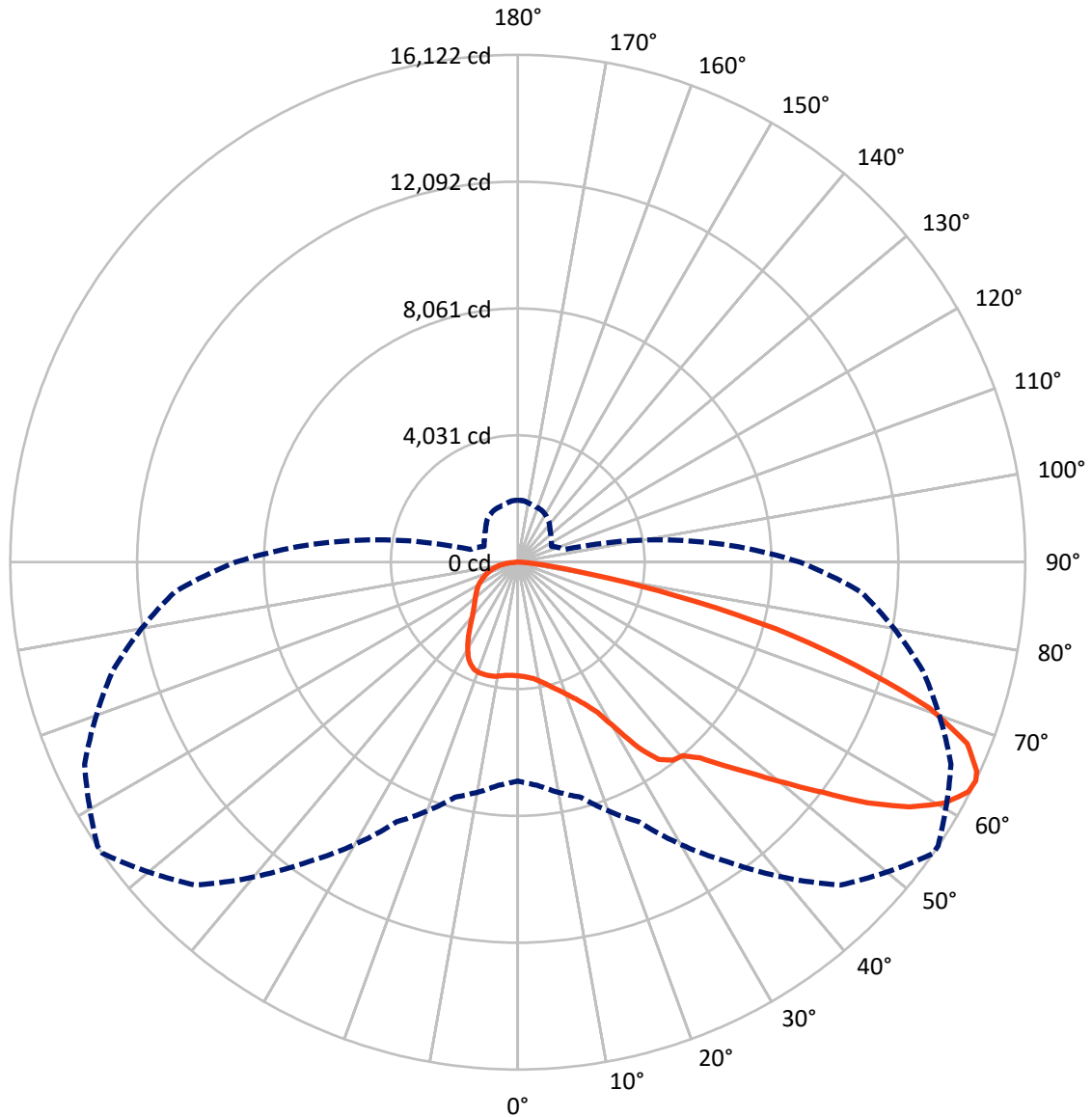
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

REPORT NUMBER: P456853
CATALOG NUMBER: GALN-SA8A-827-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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CATALOG NUMBER: GALN-SA8A-827-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6539.4	0.0	6539.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	20380.6	0.0	20380.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	26920.0	0.0	26920.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	351.3	1.3
10°-20°	1108.6	4.1
20°-30°	1973.6	7.3
30°-40°	3036.5	11.3
40°-50°	4304.5	16.0
50°-60°	6230.7	23.1
60°-70°	6448.1	24.0
70°-80°	3019.7	11.2
80°-90°	447.0	1.7
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°	26920.0	100.0
0°-180°	26920.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456853

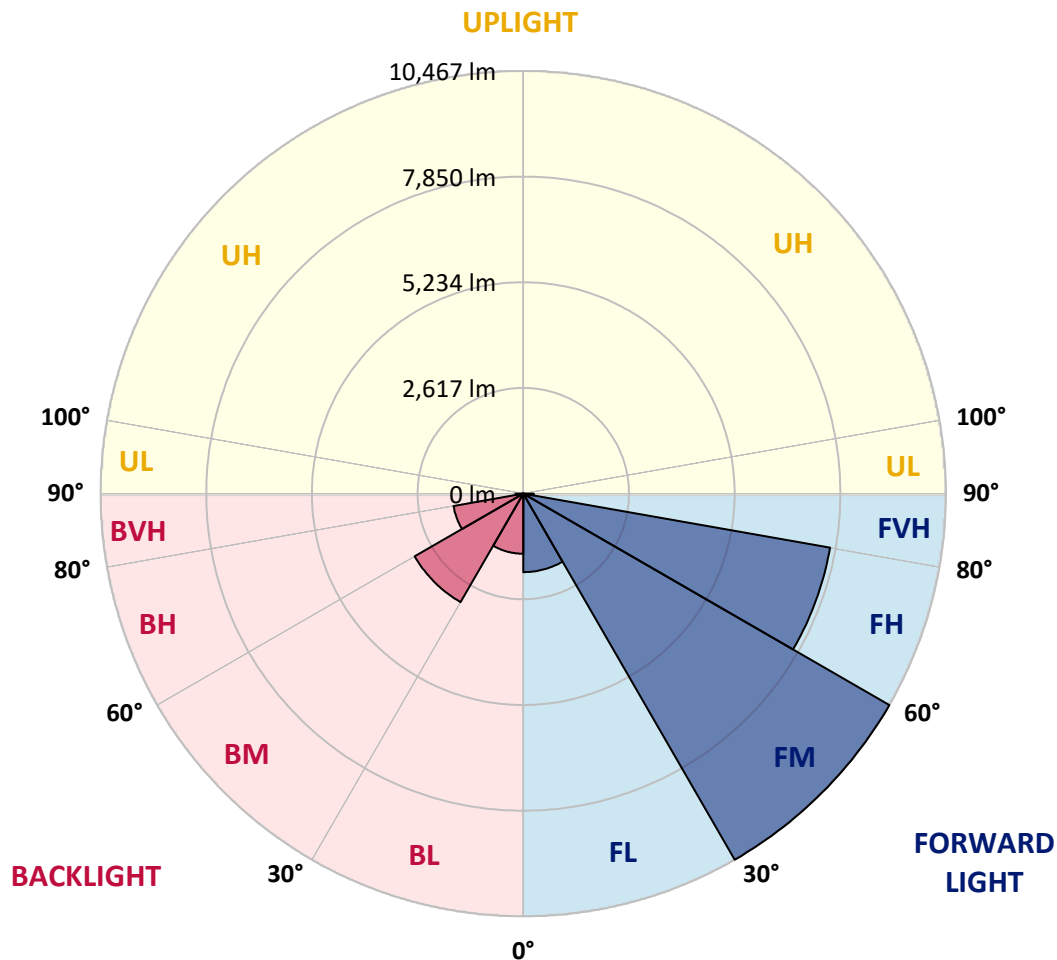
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1944.1	7.2			
FM	(30°-60°)	10467.2	38.9			
FH	(60°-80°)	7713.4	28.7			G4/12000
FVH	(80°-90°)	256.0	1.0			G3/500
BL	(0°-30°)	1489.4	5.5	B3/2500		
BM	(30°-60°)	3104.5	11.5	B3/5000		
BH	(60°-80°)	1754.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	191.1	0.7			G2/225
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





REPORT NUMBER: P456853

CATALOG NUMBER: GALN-SA8A-827-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9
2.5°	3652.4	3650.9	3655.4	3650.9	3653.9	3643.4	3638.9	3641.9	3637.4	3629.9	3616.4
5°	3697.4	3695.9	3697.4	3691.4	3694.4	3688.4	3677.9	3680.9	3673.4	3656.9	3637.4
7.5°	3773.9	3767.9	3767.9	3766.4	3760.4	3751.4	3743.9	3740.9	3733.4	3712.4	3682.4
10°	3872.9	3872.9	3874.4	3862.4	3869.9	3853.4	3845.9	3844.4	3818.9	3791.9	3749.9
12.5°	4003.5	4011.0	4006.5	4000.5	3997.5	3991.5	3966.0	3972.0	3943.5	3897.0	3845.9
15°	4165.6	4177.6	4170.1	4167.1	4159.6	4137.0	4126.5	4122.0	4084.5	4017.0	3949.5
17.5°	4380.1	4365.1	4359.1	4351.6	4320.1	4303.6	4285.6	4282.6	4249.6	4170.1	4065.0
20°	4567.7	4588.7	4576.7	4569.2	4537.7	4506.2	4492.7	4488.2	4459.7	4372.6	4204.6
22.5°	4791.3	4795.8	4800.3	4782.3	4767.3	4743.3	4719.3	4711.8	4701.3	4611.2	4405.6
25°	5029.9	5047.9	5032.9	5014.9	4996.9	4995.4	5017.9	5014.9	5010.4	4923.3	4672.7
27.5°	5418.5	5435.0	5439.5	5420.0	5351.0	5357.0	5408.0	5424.5	5493.6	5349.5	5016.4
30°	5637.6	5654.1	5691.6	5765.2	5874.7	5970.7	6093.8	6131.3	6197.3	5925.7	5424.5
32.5°	5772.7	5778.7	5846.2	5982.7	6311.4	6670.0	7004.6	7018.1	7060.1	6679.0	5798.2
35°	5985.7	5990.2	6044.3	6194.3	6580.0	7177.2	7694.9	7711.4	7676.9	6913.1	5972.2
37.5°	6248.3	6260.3	6294.9	6419.4	6880.1	7601.8	7981.5	7969.5	7663.4	7099.2	6279.8
40°	6631.0	6631.0	6590.5	6758.5	7196.7	7844.9	8082.0	8061.0	7980.0	7637.9	6748.0
42.5°	6968.6	6962.6	7058.6	7172.7	7592.8	8220.1	8503.7	8538.2	8671.7	8314.6	7280.7
45°	7408.3	7435.3	7489.3	7696.4	8266.6	8860.8	9227.0	9260.0	9449.0	9111.4	7903.5
47.5°	7852.4	7861.4	8031.0	8307.1	9100.9	9729.6	10029.8	10083.8	10256.3	10043.3	8574.2
50°	8167.6	8253.1	8524.7	8959.9	9960.7	10789.0	11023.1	11087.6	11392.3	11057.6	9356.0
52.5°	8500.7	8584.7	8916.3	9579.6	10948.1	11872.4	12160.6	12204.1	12520.7	12084.0	10155.8
55°	8785.8	8863.8	9240.5	10128.8	11734.4	12978.4	13500.6	13449.5	13601.1	12874.8	10772.5
57.5°	8832.3	8895.3	9369.5	10479.9	12325.6	13926.7	14675.5	14705.5	14529.9	13466.0	11281.2
60°	8472.2	8601.2	9145.9	10442.4	12591.2	14587.0	15551.8	15572.8	15074.6	13769.2	11483.8
62.5°	7834.4	7820.9	8479.7	9839.2	12219.1	14737.0	16068.0	16045.5	15287.7	13623.6	11287.2
64°	6953.6	7115.7	7730.9	9097.9	11618.8	14505.9	16122.0	16110.0	15185.7	13320.5	10952.6
65°	6416.4	6407.4	7015.1	8491.7	11021.6	14157.8	16026.0	16009.5	14972.6	13048.9	10693.0
67.5°	4632.2	4653.2	5253.5	6553.0	8959.9	12796.8	15400.3	15338.7	14132.3	12148.5	9705.6
70°	2806.0	2818.1	3289.2	4347.1	6431.4	10344.9	13881.7	13884.7	12846.3	10804.0	8260.6
72.5°	1478.1	1509.6	1698.6	2468.4	3906.0	7258.2	11261.7	11528.8	11029.1	9221.0	6525.9
75°	822.3	826.8	960.4	1217.0	1992.7	4062.0	8464.7	8541.2	8731.8	7421.8	4825.8
77.5°	627.2	636.2	678.3	786.3	1084.9	1883.2	5122.9	5507.1	6153.8	5232.5	2753.5
80°	508.7	517.7	553.7	618.2	721.8	892.8	2379.9	2587.0	3293.7	2322.9	1074.4
82.5°	396.1	390.1	436.7	478.7	525.2	528.2	976.9	1080.4	1341.5	999.4	465.2
85°	294.1	294.1	331.6	322.6	339.1	309.1	430.7	475.7	537.2	424.7	216.1
87.5°	117.0	129.0	217.6	195.1	151.6	121.5	159.1	168.1	186.1	166.6	90.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456853

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9	3611.9
2.5°	3617.9	3622.4	3611.9	3604.3	3601.3	3596.8	3592.3	3593.8	3599.8	3605.8	3604.3
5°	3635.9	3637.4	3619.4	3610.4	3604.3	3598.3	3598.3	3602.8	3614.9	3623.9	3623.9
7.5°	3680.9	3680.9	3655.4	3638.9	3629.9	3619.4	3616.4	3617.9	3626.9	3638.9	3640.4
10°	3751.4	3745.4	3712.4	3686.9	3670.4	3644.9	3622.4	3610.4	3614.9	3622.4	3622.4
12.5°	3836.9	3820.4	3778.4	3743.9	3703.4	3655.4	3608.9	3584.8	3583.3	3590.8	3587.8
15°	3928.5	3910.5	3851.9	3788.9	3718.4	3647.9	3592.3	3557.8	3530.8	3523.3	3539.8
17.5°	4035.0	3997.5	3916.5	3829.4	3724.4	3632.9	3545.8	3475.3	3427.3	3413.8	3418.3
20°	4164.1	4114.5	4005.0	3868.4	3719.9	3578.8	3443.8	3349.3	3271.2	3247.2	3250.2
22.5°	4342.6	4257.1	4096.5	3888.0	3682.4	3476.8	3289.2	3166.2	3071.6	3034.1	3056.6
25°	4545.2	4452.2	4183.6	3883.5	3584.8	3313.2	3106.2	2945.6	2860.1	2804.5	2816.6
27.5°	4824.3	4659.2	4276.6	3842.9	3445.3	3113.7	2873.6	2722.0	2644.0	2615.5	2629.0
30°	5181.4	4927.8	4377.1	3733.4	3224.7	2861.6	2639.5	2540.5	2493.9	2457.9	2469.9
32.5°	5439.5	5116.9	4399.6	3548.8	2986.1	2632.0	2480.4	2406.9	2355.9	2321.4	2328.9
35°	5624.1	5277.5	4389.1	3322.2	2737.0	2442.9	2354.4	2294.4	2211.8	2136.8	2123.3
37.5°	5871.7	5478.5	4312.6	3074.7	2490.9	2315.4	2252.3	2141.3	2022.8	1922.2	1917.7
40°	6251.3	5714.1	4149.1	2783.5	2280.9	2220.8	2144.3	2000.2	1872.7	1791.7	1785.7
42.5°	6643.0	5931.7	3927.0	2477.4	2108.3	2121.8	2028.8	1886.2	1808.2	1755.7	1749.7
45°	7121.7	6167.3	3686.9	2211.8	1980.7	2028.8	1928.2	1845.7	1799.2	1764.7	1755.7
47.5°	7639.4	6408.9	3416.8	1973.2	1872.7	1943.2	1886.2	1848.7	1823.2	1799.2	1788.7
50°	8197.6	6679.0	3163.2	1781.2	1775.2	1854.7	1881.7	1868.2	1853.2	1845.7	1836.7
52.5°	8809.8	6955.1	2950.1	1646.1	1689.6	1791.7	1883.2	1893.7	1893.7	1889.2	1883.2
55°	9224.0	7147.2	2734.0	1536.6	1602.6	1740.7	1880.2	1920.7	1935.7	1929.7	1923.7
57.5°	9530.1	7252.2	2462.4	1442.0	1529.1	1691.1	1863.7	1923.7	1938.7	1946.2	1943.2
60°	9593.1	7154.7	2106.8	1343.0	1449.5	1619.1	1803.7	1878.7	1898.2	1944.7	1949.2
62.5°	9309.5	6854.6	1752.7	1245.5	1352.0	1509.6	1722.6	1827.7	1866.7	1938.7	1946.2
64°	8961.4	6518.4	1556.1	1183.9	1289.0	1448.0	1682.1	1814.2	1865.2	1961.2	1967.2
65°	8706.3	6273.8	1433.0	1144.9	1248.5	1407.5	1659.6	1818.7	1878.7	1995.7	2004.8
67.5°	7766.9	5432.0	1185.4	1053.4	1152.4	1338.5	1664.1	1856.2	1875.7	2009.3	2007.8
70°	6426.9	4324.6	993.4	969.4	1059.4	1283.0	1646.1	1796.2	1797.7	1886.2	1865.2
72.5°	4812.3	3196.2	861.3	882.3	955.9	1150.9	1554.6	1715.1	1689.6	1701.6	1680.6
75°	3305.7	2114.3	741.3	789.3	847.8	1017.4	1425.5	1557.6	1517.1	1502.1	1487.1
77.5°	1764.7	1168.9	616.7	697.8	736.8	879.3	1244.0	1371.5	1329.5	1271.0	1251.5
80°	714.3	550.7	496.7	577.7	600.2	708.3	1035.4	1114.9	1083.4	981.4	948.4
82.5°	358.6	330.1	390.1	454.7	456.2	505.7	769.8	844.8	774.3	649.7	621.2
85°	187.6	193.6	268.6	319.6	282.1	273.1	462.2	511.7	469.7	408.2	367.6
87.5°	67.5	78.0	141.1	139.6	99.0	52.5	102.0	49.5	27.0	16.5	21.0
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)