

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: P457087

Luminaire Tested: **GALN-SA8B-827-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457087
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34566 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

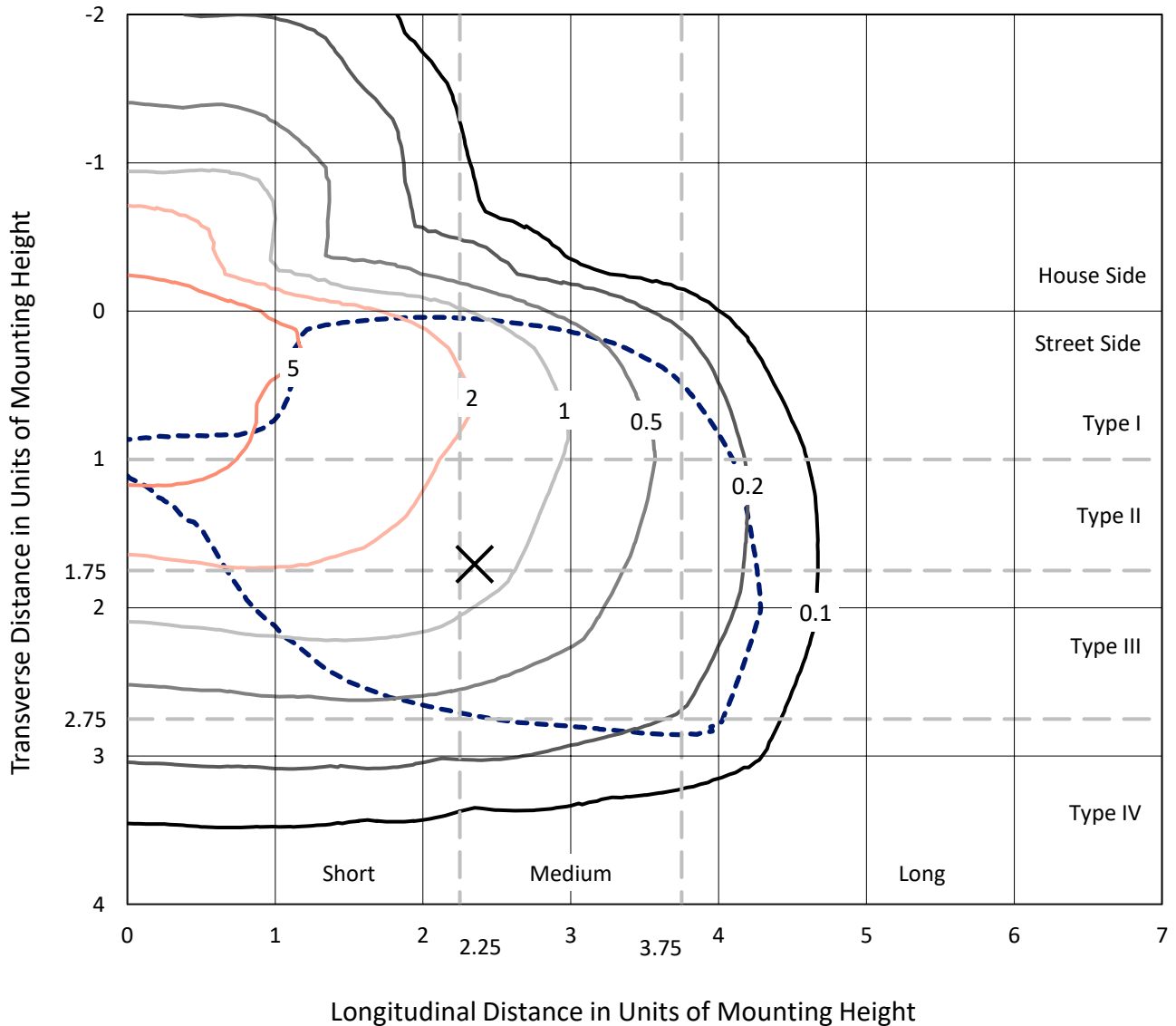
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

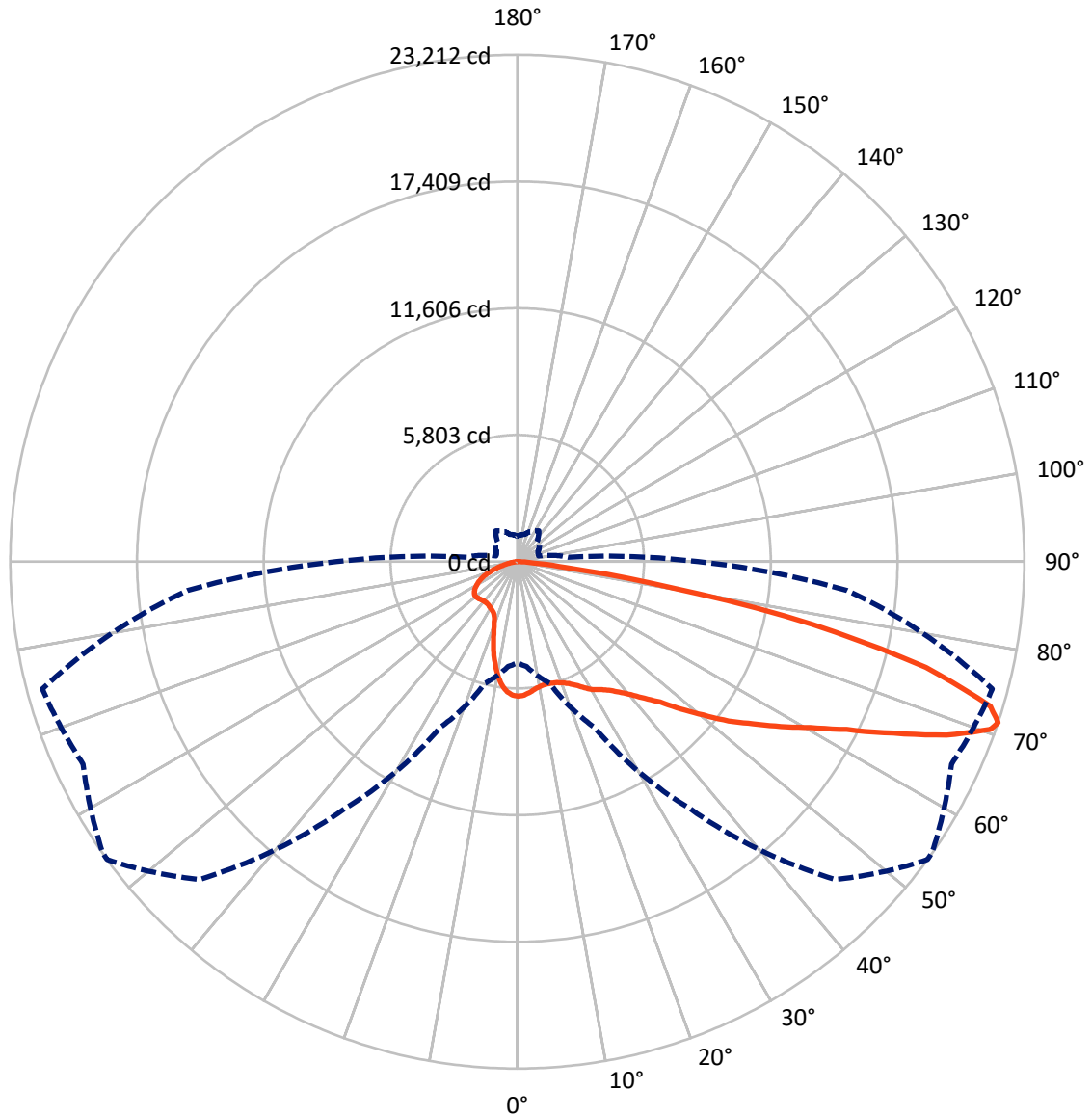
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6240.7	0.0	6240.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28325.3	0.0	28325.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	34566.0	0.0	34566.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.6	1.6
10°-20°	1451.2	4.2
20°-30°	2416.3	7.0
30°-40°	3572.9	10.3
40°-50°	5032.5	14.6
50°-60°	6738.7	19.5
60°-70°	8493.6	24.6
70°-80°	5801.1	16.8
80°-90°	510.2	1.5
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°	34566.0	100.0
0°-180°	34566.0	100.0

Coefficient of Utilization



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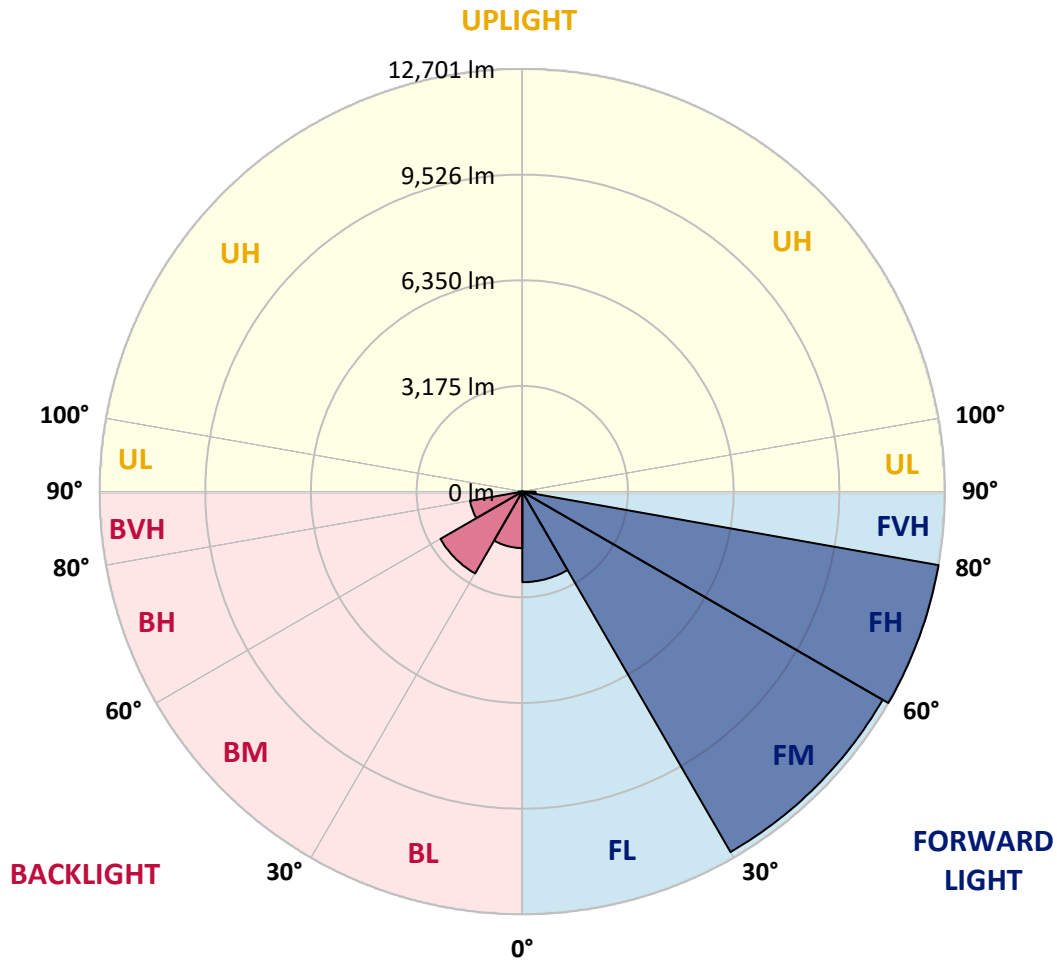
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2720.9	7.9			
FM	(30°-60°)	12504.7	36.2			
FH	(60°-80°)	12700.9	36.7			G5
FVH	(80°-90°)	398.8	1.2			G3/500
BL	(0°-30°)	1696.1	4.9	B3/2500		
BM	(30°-60°)	2839.3	8.2	B3/5000		
BH	(60°-80°)	1593.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	111.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1
2.5°	5958.0	5986.0	5993.4	6012.1	6051.3	6083.1	6114.8	6111.1	6155.9	6174.6	6191.4
5°	5692.8	5700.3	5728.3	5765.7	5834.7	5922.5	6008.4	6010.2	6120.4	6208.2	6251.1
7.5°	5498.7	5522.9	5541.6	5580.8	5653.6	5748.9	5885.2	5896.4	6092.4	6266.0	6357.5
10°	5371.7	5399.7	5420.2	5468.8	5541.6	5648.0	5795.5	5816.1	6071.9	6357.5	6518.1
12.5°	5255.9	5283.9	5302.6	5366.1	5461.3	5592.0	5758.2	5782.5	6079.3	6464.0	6693.6
15°	5326.9	5349.3	5341.8	5360.5	5424.0	5573.3	5773.1	5797.4	6107.3	6566.6	6867.3
17.5°	5642.4	5661.1	5599.5	5528.5	5498.7	5608.8	5819.8	5845.9	6163.4	6673.1	7044.6
20°	6107.3	6157.8	6023.3	5864.6	5720.8	5735.8	5916.9	5944.9	6241.8	6779.5	7225.7
22.5°	6712.3	6749.6	6585.3	6323.9	6058.8	5922.5	6062.5	6079.3	6359.4	6917.7	7423.7
25°	7423.7	7446.1	7218.3	6882.2	6499.4	6241.8	6262.3	6292.2	6553.6	7074.5	7599.2
27.5°	8114.5	8185.4	7922.2	7511.4	7007.3	6577.9	6536.8	6555.4	6764.6	7162.3	7720.5
30°	8934.2	8928.6	8650.4	8174.2	7528.2	6943.8	6796.3	6792.6	6878.5	7205.2	7808.3
32.5°	9587.6	9664.2	9391.6	8872.5	8123.8	7322.8	6975.5	6968.1	6966.2	7279.9	7939.0
35°	10330.8	10342.0	10091.8	9569.0	8768.0	7798.9	7225.7	7188.4	7145.5	7440.5	8116.4
37.5°	10995.4	11047.7	10818.1	10231.8	9400.9	8293.7	7569.3	7545.0	7414.3	7718.7	8400.2
40°	11514.5	11553.7	11415.6	10857.3	10024.5	8827.7	8006.2	7961.4	7802.7	8174.2	8779.2
42.5°	11684.4	11764.7	11818.8	11544.4	10741.5	9460.7	8543.9	8487.9	8366.5	8865.1	9216.1
45°	11697.5	11824.4	12110.1	12123.2	11462.2	10218.7	9171.3	9132.1	9122.7	9750.1	9830.4
47.5°	11598.5	11727.4	12207.2	12466.7	12104.5	10984.2	10076.8	10015.2	10020.8	10844.2	10519.3
50°	11359.5	11512.6	12095.2	12687.1	12606.8	11779.6	11032.8	11012.3	11128.0	12093.3	11234.4
52.5°	10909.6	11094.4	11979.4	12825.2	12980.2	12464.9	12119.5	12061.6	12354.7	13448.8	12016.8
55°	9664.2	9942.4	11555.6	12901.8	13334.9	13120.2	13097.8	13202.4	13590.7	14927.6	12877.5
57.5°	9014.4	9223.6	10635.1	12914.8	13783.1	13882.0	14240.5	14266.6	14946.3	16497.8	13850.3
60°	8659.7	8844.5	10131.0	12829.0	14408.5	14824.9	15409.3	15502.7	16270.1	18198.8	14858.5
62.5°	8349.7	8508.5	9828.5	12532.1	15114.3	16223.4	16923.5	16968.4	17773.1	20077.1	15853.7
65°	7619.7	7800.8	9219.8	12235.2	15723.0	17971.0	18932.6	18880.3	19373.2	21697.8	16477.3
67.5°	6635.7	6865.4	8082.7	11210.2	16023.6	19881.1	21195.5	21130.2	20952.8	22760.2	16656.5
70°	5379.2	5502.4	6628.3	9438.3	14823.0	20883.7	22982.3	22913.3	21931.2	22900.2	15808.9
71°	4628.6	4820.9	5771.3	8383.4	13824.1	20577.5	23212.0	23193.3	21933.0	22513.7	15170.3
72.5°	3612.9	3730.5	4570.7	6495.7	11749.8	18837.3	22644.4	22715.3	21456.9	21440.1	13854.0
75°	2285.4	2337.6	2867.9	3823.9	6447.2	13340.5	19330.3	19522.6	19052.1	17549.0	10302.7
77.5°	1327.5	1394.7	1717.7	2253.6	2785.7	7240.7	13831.6	14040.7	13237.9	9662.3	4217.8
80°	773.0	847.7	1131.5	1308.8	1279.0	2686.8	7042.8	7399.4	5732.0	2440.3	1183.8
82.5°	429.4	479.8	795.4	797.3	681.5	877.5	2216.3	2319.0	1635.6	984.0	483.6
85°	311.8	352.9	513.5	464.9	326.7	377.2	771.1	808.5	661.0	414.5	156.8
87.5°	110.2	156.8	281.9	224.1	89.6	78.4	222.2	181.1	168.0	115.8	35.5
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°	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1	6167.1
2.5°	6200.7	6204.4	6185.8	6152.1	6118.5	6075.6	6027.1	5989.7	5972.9	5971.0	5969.2
5°	6267.9	6277.2	6206.3	6101.7	5986.0	5844.1	5722.7	5584.5	5549.1	5493.1	5509.9
7.5°	6376.2	6370.6	6230.6	6008.4	5737.6	5437.0	5183.1	5035.6	4882.5	4839.6	4841.4
10°	6531.2	6495.7	6230.6	5817.9	5366.1	4919.9	4565.1	4341.0	4219.7	4118.9	4081.5
12.5°	6695.5	6605.9	6170.8	5550.9	4888.1	4341.0	3960.2	3657.7	3579.3	3497.1	3499.0
15°	6852.3	6702.9	6053.2	5175.6	4372.8	3723.0	3353.3	3172.2	3148.0	3157.3	3155.4
17.5°	6994.2	6772.0	5873.9	4757.4	3771.6	3192.8	2996.7	3009.8	3075.1	3121.8	3127.4
20°	7138.0	6813.1	5607.0	4197.3	3204.0	2871.6	2879.1	2981.8	3080.7	3144.2	3153.6
22.5°	7274.3	6831.8	5293.3	3655.8	2793.2	2735.3	2845.5	2955.6	3052.7	3114.4	3123.7
25°	7363.9	6788.8	4848.9	3090.1	2591.6	2686.8	2802.5	2895.9	2978.1	3041.5	3056.5
27.5°	7388.2	6650.7	4298.1	2632.6	2498.2	2640.1	2746.5	2815.6	2879.1	2938.8	2950.0
30°	7375.1	6447.2	3693.2	2363.8	2444.1	2586.0	2668.1	2718.5	2795.1	2841.8	2851.1
32.5°	7354.6	6210.0	3062.1	2220.0	2399.2	2535.5	2584.1	2628.9	2627.0	2608.4	2621.4
35°	7362.0	5926.2	2550.5	2134.1	2360.0	2498.2	2539.3	2483.3	2322.7	2315.2	2307.8
37.5°	7401.3	5646.2	2178.9	2074.4	2339.5	2492.6	2515.0	2257.3	2115.4	2050.1	2033.3
40°	7502.1	5319.4	1934.3	2029.6	2337.6	2535.5	2404.8	2143.4	1870.9	1743.9	1734.6
42.5°	7636.5	4998.3	1785.0	2001.5	2360.0	2600.9	2360.0	1982.9	1686.0	1611.3	1600.1
45°	7836.3	4630.4	1702.8	1988.5	2393.6	2625.2	2345.1	1865.2	1611.3	1551.6	1551.6
47.5°	8062.2	4279.4	1658.0	1979.1	2436.6	2608.4	2212.5	1827.9	1575.8	1583.3	1618.8
50°	8286.3	3975.1	1624.4	1958.6	2473.9	2599.0	2158.4	1826.0	1585.2	1680.4	1743.9
52.5°	8545.8	3760.4	1583.3	1925.0	2473.9	2539.3	2141.6	1863.4	1611.3	1639.3	1667.3
55°	8859.5	3693.2	1531.0	1852.2	2429.1	2389.9	2132.2	1917.5	1630.0	1564.6	1575.8
57.5°	9274.0	3801.4	1480.6	1760.7	2326.4	2234.9	2128.5	1932.5	1587.0	1532.9	1521.7
60°	9755.7	4016.2	1465.7	1667.3	2186.4	2102.4	2106.1	1889.5	1527.3	1471.3	1480.6
62.5°	10093.6	4145.0	1456.4	1596.4	2033.3	1956.7	2052.0	1837.2	1501.2	1452.6	1462.0
65°	10093.6	3988.2	1370.5	1488.1	1835.4	1781.2	1986.6	1771.9	1467.6	1411.5	1402.2
67.5°	9710.9	3530.7	1239.8	1325.7	1616.9	1581.4	1895.1	1693.5	1417.1	1374.2	1351.8
70°	8713.8	2677.4	1075.5	1135.2	1340.6	1372.3	1777.5	1587.0	1333.1	1280.8	1247.2
71°	8275.1	2332.0	1006.4	1038.1	1234.2	1280.8	1721.5	1542.2	1295.8	1221.1	1161.3
72.5°	7429.3	1964.2	901.8	914.9	1054.9	1138.9	1603.9	1456.4	1224.8	1118.4	1051.2
75°	5644.3	1433.9	726.3	718.8	780.5	903.7	1357.4	1297.6	1073.6	929.8	890.6
77.5°	2438.5	780.5	543.3	548.9	530.3	685.2	1068.0	1114.7	920.5	756.2	720.7
80°	739.4	450.0	371.6	379.0	354.8	459.3	752.4	873.8	739.4	588.1	539.6
82.5°	379.0	268.9	253.9	250.2	225.9	259.5	455.6	597.5	528.4	367.8	324.9
85°	164.3	143.8	125.1	121.4	106.4	93.4	162.4	298.7	280.1	205.4	196.0
87.5°	41.1	37.3	24.3	22.4	13.1	1.9	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)