

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: P522878

Luminaire Tested: **GALN-SA8B-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45982 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

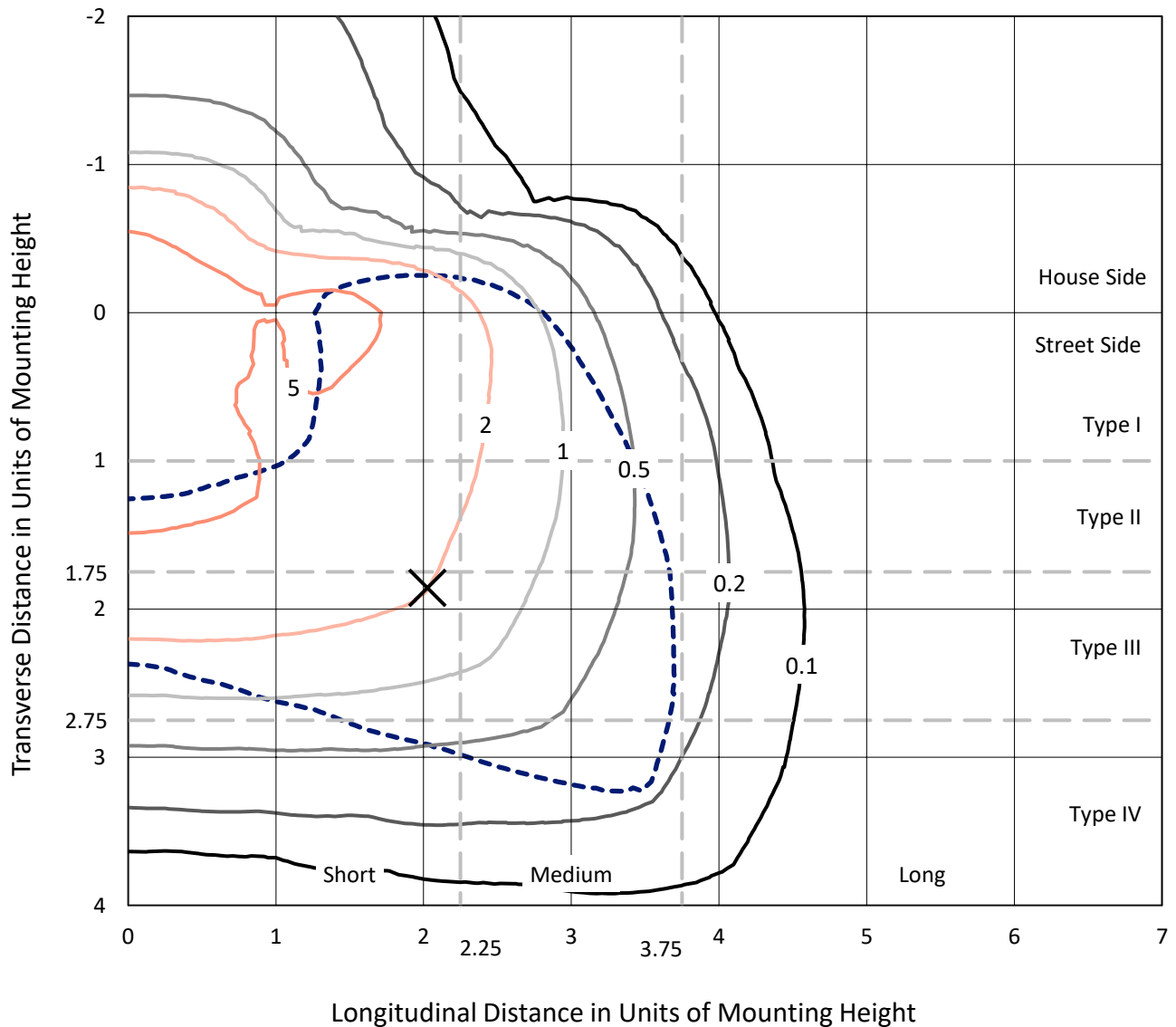
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

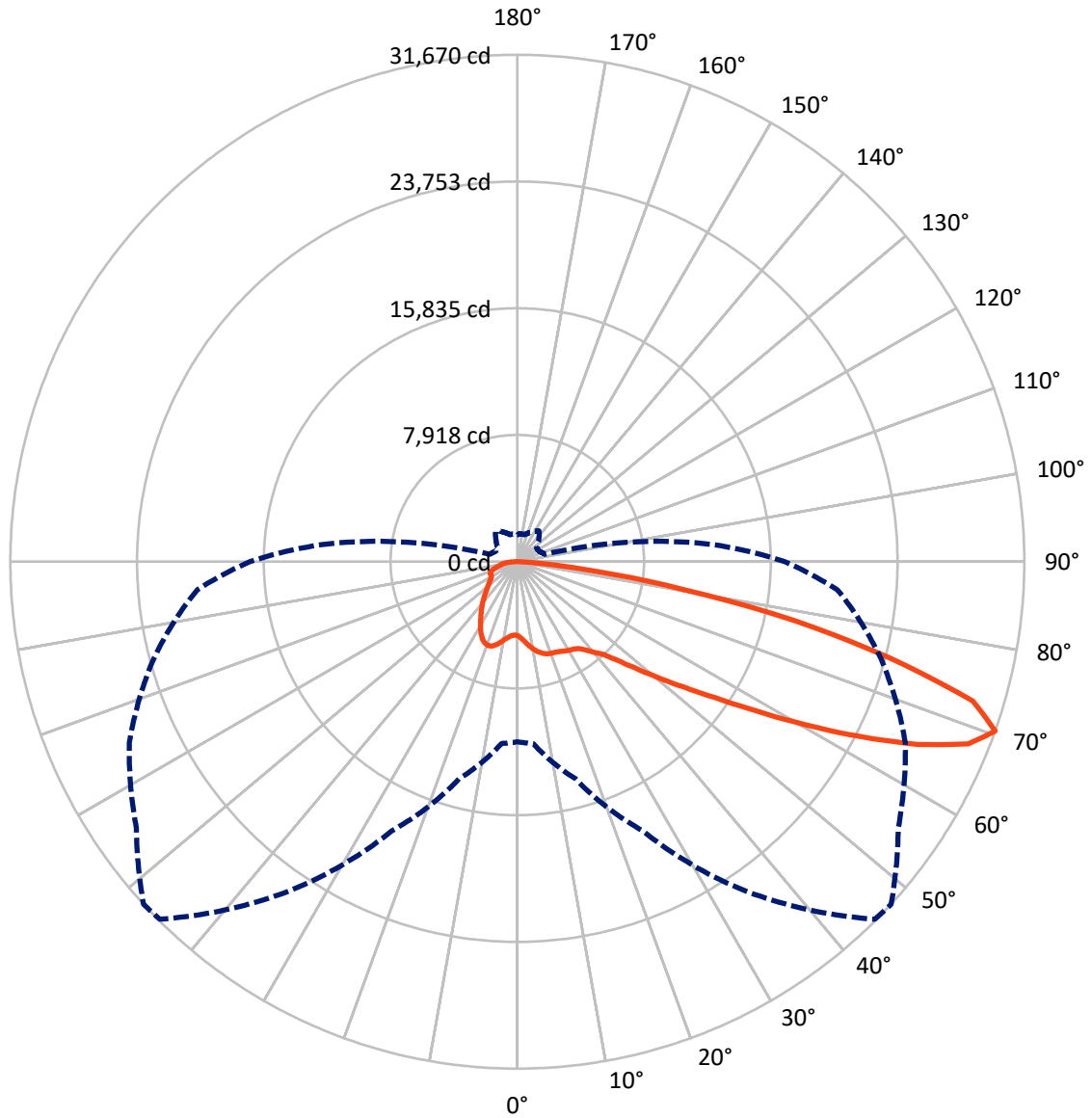
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10411.2	0.0	10411.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	35570.8	0.0	35570.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	45982.0	0.0	45982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.8	1.0
10°-20°	1590.7	3.5
20°-30°	2645.3	5.8
30°-40°	3749.3	8.2
40°-50°	5534.8	12.0
50°-60°	9586.5	20.8
60°-70°	13541.2	29.4
70°-80°	7784.2	16.9
80°-90°	1074.0	2.3
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°	45982.0	100.0
0°-180°	45982.0	100.0

Coefficient of Utilization



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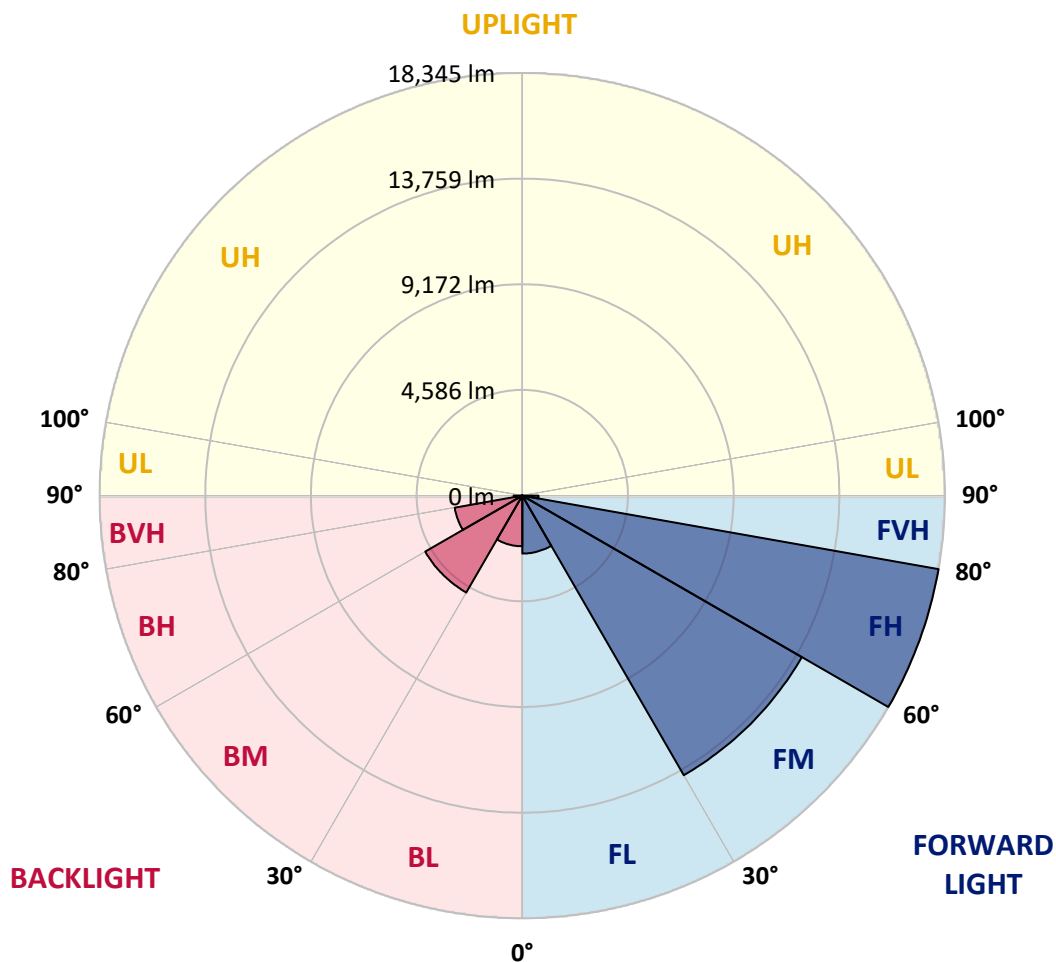
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2514.5	5.5			
FM	(30°-60°)	14009.8	30.5			
FH	(60°-80°)	18344.9	39.9			G5
FVH	(80°-90°)	701.6	1.5			G4/750
BL	(0°-30°)	2197.4	4.8	B3/2500		
BM	(30°-60°)	4860.8	10.6	B3/5000		
BH	(60°-80°)	2980.6	6.5	B4/5000		G4/5000
BVH	(80°-90°)	372.4	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0
2.5°	4913.8	4896.5	4894.1	4857.2	4837.5	4800.6	4785.8	4751.4	4709.5	4667.7	4628.3
5°	5300.1	5300.1	5282.9	5231.2	5150.0	5066.3	5029.4	4963.0	4844.9	4748.9	4667.7
7.5°	5696.2	5701.2	5666.7	5590.4	5474.8	5339.4	5305.0	5206.6	5039.3	4899.0	4778.4
10°	6038.3	6038.3	5991.5	5888.2	5743.0	5595.3	5560.9	5450.2	5263.2	5088.5	4931.0
12.5°	6299.1	6299.1	6237.6	6102.2	5944.8	5811.9	5772.5	5666.7	5492.0	5297.6	5098.3
15°	6468.9	6456.5	6387.7	6235.1	6082.5	5966.9	5939.8	5851.2	5691.3	5494.5	5270.6
17.5°	6476.2	6471.3	6404.9	6276.9	6144.1	6065.3	6048.1	5989.0	5863.6	5676.5	5440.3
20°	6333.5	6343.4	6299.1	6208.0	6144.1	6109.6	6102.2	6082.5	5994.0	5819.3	5583.0
22.5°	6181.0	6198.2	6156.4	6107.1	6102.2	6136.7	6141.6	6146.5	6089.9	5920.1	5703.6
25°	6144.1	6156.4	6114.5	6070.2	6097.3	6188.3	6208.0	6227.7	6183.4	6040.7	5846.3
27.5°	6331.1	6321.2	6240.0	6144.1	6161.3	6284.3	6311.4	6333.5	6311.4	6188.3	6023.5
30°	6860.1	6828.1	6665.7	6385.2	6296.6	6382.7	6409.8	6471.3	6471.3	6380.3	6215.4
32.5°	7745.9	7684.4	7386.6	6835.5	6527.9	6476.2	6503.3	6604.2	6655.9	6584.5	6404.9
35°	8821.2	8757.2	8331.5	7590.9	6951.1	6663.2	6655.9	6769.0	6906.8	6746.9	6513.1
37.5°	9901.4	9834.9	9323.1	8491.4	7568.7	7056.9	7012.6	7052.0	7111.1	6818.3	6663.2
40°	10981.5	10902.8	10455.0	9497.8	8324.1	7578.6	7462.9	7285.8	7261.2	7052.0	6953.6
42.5°	12051.9	11980.5	11754.2	10627.2	9229.6	8087.9	7910.8	7605.6	7699.1	7573.7	7487.5
45°	13132.1	13137.0	12895.9	11894.4	10322.1	9027.9	8789.2	8311.8	8533.3	8486.5	8535.7
47.5°	14089.3	14077.0	13990.8	13124.7	11677.9	10238.5	9930.9	9377.3	9756.2	9928.4	10304.9
50°	15016.9	15009.5	15014.4	14519.9	13252.7	11677.9	11338.3	10757.6	11611.5	12209.4	12883.6
52.5°	16345.6	16387.4	16089.7	15959.3	15167.0	13378.1	13004.1	12403.8	13803.8	14746.2	16062.6
55°	17679.2	17644.8	17411.0	17546.4	17169.9	15390.9	14999.7	14522.3	16244.7	17275.7	19254.0
57.5°	18464.2	18476.5	18715.1	19377.0	19642.8	17900.7	17546.4	17177.3	18988.3	19719.1	22093.5
60°	19170.3	19226.9	19913.4	21163.4	21884.4	20983.8	20668.8	20309.6	21505.4	21795.8	24559.0
62.5°	19391.8	19566.5	20764.8	22634.8	24069.3	24463.0	24071.8	23279.5	23902.0	23788.8	26229.7
65°	18287.0	18525.7	20673.8	23186.0	26020.6	27765.1	27516.6	26045.2	25944.3	25262.7	26502.9
67.5°	15378.6	15617.3	18375.6	22029.5	26827.7	30624.3	30375.8	28062.9	27184.4	25400.5	24436.0
70°	11252.2	11402.3	14040.0	18547.8	25206.1	31583.9	31670.1	29047.1	26741.5	23528.0	20063.5
72.5°	6483.6	6815.8	8663.7	13048.4	20592.6	29157.8	29755.7	26999.9	23941.4	19628.0	14027.7
75°	2787.8	2795.2	4005.8	7197.2	13946.5	23437.0	24015.2	22381.4	18801.3	13572.5	7490.0
77.5°	1326.3	1350.9	1761.8	3213.5	7677.0	16193.0	17753.1	15811.7	12024.8	6520.5	2829.7
80°	861.2	878.4	1077.7	1594.5	3764.7	9389.6	10477.1	9121.4	5305.0	2330.2	1220.4
82.5°	521.6	526.6	720.9	974.4	2071.8	4251.9	5012.2	3959.1	2263.7	1395.1	718.5
85°	317.4	319.9	438.0	602.8	1257.4	1469.0	1508.3	1496.0	1328.7	912.9	383.8
87.5°	152.6	157.5	226.4	285.4	494.6	455.2	430.6	499.5	627.4	492.1	164.9
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°	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0	4616.0
2.5°	4611.1	4603.7	4586.5	4579.1	4574.2	4576.7	4574.2	4574.2	4576.7	4576.7	4576.7
5°	4633.3	4621.0	4593.9	4593.9	4608.7	4643.1	4675.1	4699.7	4726.8	4724.3	4724.3
7.5°	4729.2	4707.1	4675.1	4684.9	4721.8	4776.0	4832.6	4886.7	4940.8	4945.8	4943.3
10°	4869.5	4847.3	4812.9	4825.2	4884.2	4965.4	5036.8	5115.5	5174.6	5191.8	5186.9
12.5°	5029.4	4985.1	4955.6	4990.0	5083.5	5191.8	5260.7	5319.8	5361.6	5386.2	5376.4
15°	5191.8	5150.0	5115.5	5186.9	5300.1	5401.0	5435.4	5445.3	5452.6	5477.2	5472.3
17.5°	5349.3	5292.7	5280.4	5373.9	5482.2	5526.5	5506.8	5464.9	5433.0	5452.6	5450.2
20°	5489.5	5445.3	5440.3	5533.8	5575.7	5533.8	5450.2	5376.4	5319.8	5324.7	5322.2
22.5°	5622.4	5588.0	5592.9	5632.3	5565.8	5423.1	5285.3	5184.4	5122.9	5135.2	5142.6
25°	5770.0	5735.6	5747.9	5683.9	5464.9	5216.4	5017.1	4931.0	4906.4	4931.0	4948.2
27.5°	5962.0	5939.8	5932.4	5686.4	5285.3	4911.3	4684.9	4652.9	4675.1	4729.2	4756.3
30°	6168.7	6168.7	6129.3	5644.6	5039.3	4544.7	4347.8	4352.8	4429.0	4505.3	4532.4
32.5°	6368.0	6409.8	6286.8	5531.4	4721.8	4187.9	4037.8	4042.7	4109.2	4202.7	4227.3
35°	6532.8	6653.4	6422.1	5324.7	4347.8	3887.7	3774.5	3708.1	3710.5	3781.9	3801.6
37.5°	6759.2	6983.1	6500.8	5017.1	3949.2	3631.8	3503.9	3388.2	3311.9	3282.4	3282.4
40°	7152.9	7482.6	6520.5	4561.9	3572.8	3388.2	3206.1	3068.3	2920.7	2787.8	2763.2
42.5°	7819.7	8235.5	6481.2	4037.8	3233.2	3120.0	2942.8	2773.1	2568.8	2381.8	2367.1
45°	9000.8	9214.9	6375.4	3494.0	2930.5	2861.6	2689.4	2504.9	2288.3	2121.0	2108.7
47.5°	10893.0	10590.3	6235.1	3011.7	2655.0	2635.3	2502.4	2288.3	2071.8	1956.2	1943.9
50°	13656.2	12755.6	6215.4	2662.3	2433.5	2443.4	2335.1	2138.2	1948.8	1852.8	1838.0
52.5°	16982.9	15371.2	6345.8	2416.3	2239.1	2276.0	2221.9	2039.8	1872.5	1791.3	1776.5
55°	20211.2	17723.5	6424.6	2224.4	2057.0	2125.9	2133.3	1980.8	1828.2	1747.0	1737.2
57.5°	22831.7	19495.1	6075.2	2049.7	1899.6	2005.4	2059.5	1946.3	1806.1	1744.5	1734.7
60°	24655.0	20331.7	5081.1	1894.6	1783.9	1909.4	2032.4	1948.8	1860.2	1867.6	1872.5
62.5°	25235.7	19960.2	3811.4	1779.0	1705.2	1877.4	2076.7	2049.7	1958.6	2015.2	2025.1
65°	24273.6	18424.8	2763.2	1688.0	1636.3	1899.6	2209.6	2123.5	1924.2	1966.0	1966.0
67.5°	21052.7	15873.2	2150.5	1604.3	1557.5	1941.4	2342.5	2116.1	1843.0	1892.2	1847.9
70°	16699.9	12278.3	1791.3	1510.8	1473.9	1879.9	2354.8	2039.8	1747.0	1756.9	1673.2
72.5°	11082.4	8073.1	1540.3	1422.2	1345.9	1690.4	2253.9	1941.4	1653.5	1596.9	1513.3
75°	5430.5	4025.5	1343.5	1311.5	1178.6	1471.4	2116.1	1847.9	1552.6	1464.0	1417.3
77.5°	2103.8	1712.6	1146.6	1171.2	1026.1	1296.7	1934.0	1715.0	1419.8	1299.2	1262.3
80°	1021.1	971.9	939.9	976.8	844.0	1104.8	1766.7	1599.4	1296.7	1163.9	1109.7
82.5°	634.8	600.4	720.9	760.3	649.6	1008.8	1675.7	1501.0	1141.7	964.5	920.3
85°	322.3	344.5	482.3	519.2	465.0	802.1	1380.4	1126.9	824.3	684.0	689.0
87.5°	123.0	164.9	253.4	273.1	248.5	423.2	760.3	657.0	529.0	359.2	332.2
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)