

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: P522893

Luminaire Tested: **GALN-SA8D-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522893
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-SA8D-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52280 lumens
Efficiency: N/A
Efficacy: 106.0 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

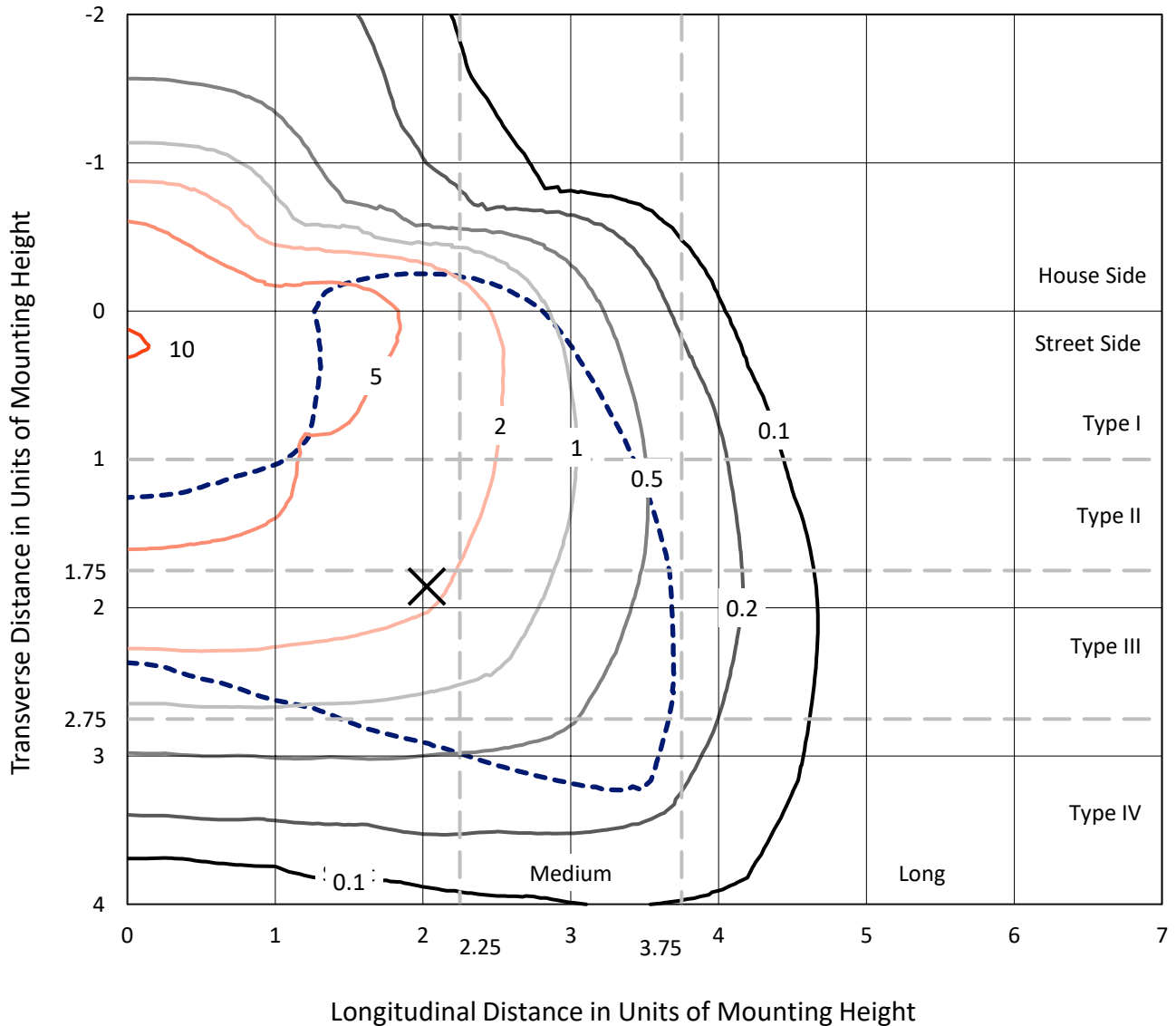
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

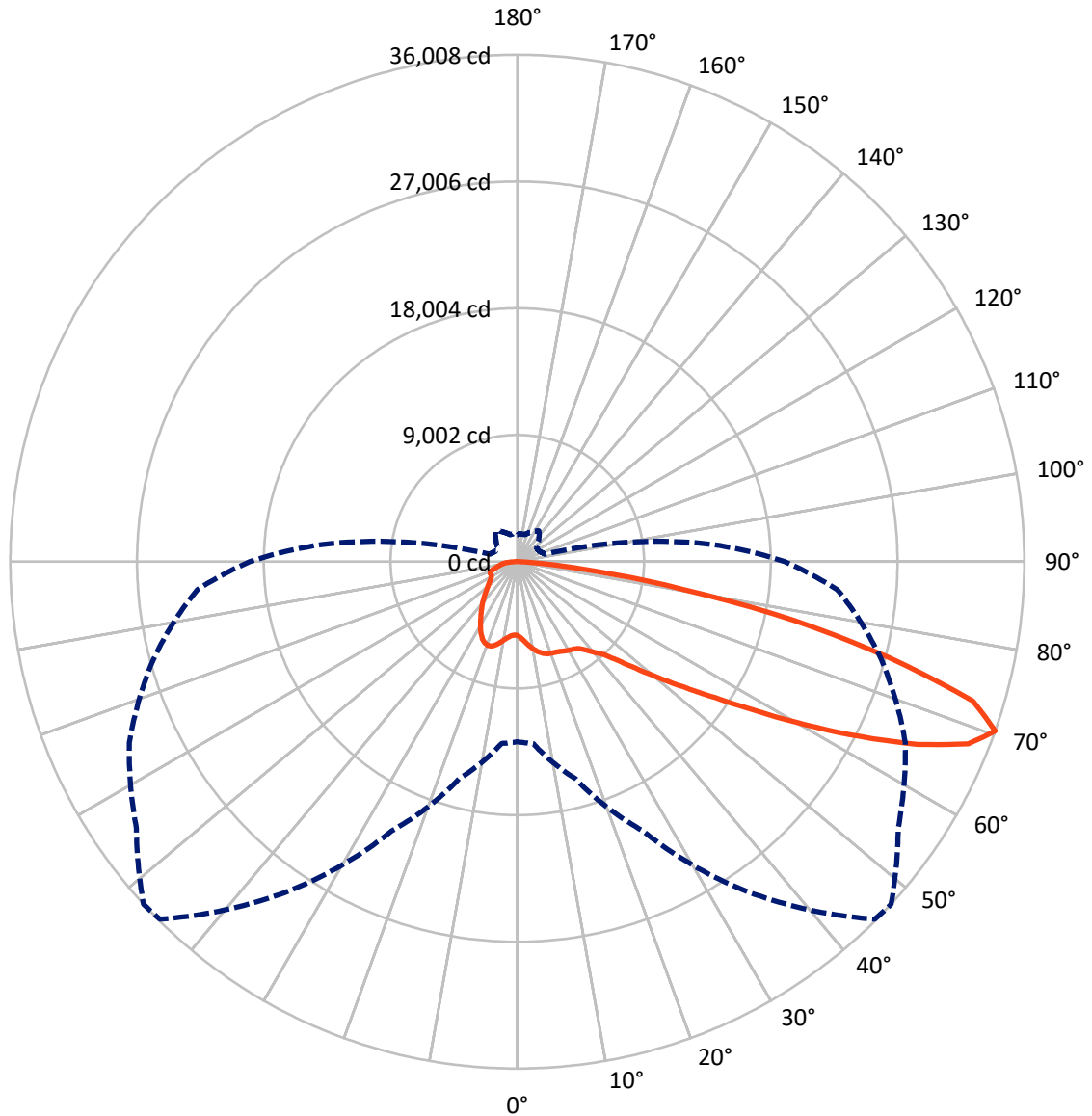
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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	11837.2	0.0	11837.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	40442.8	0.0	40442.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	52280.0	0.0	52280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.0	1.0
10°-20°	1808.6	3.5
20°-30°	3007.6	5.8
30°-40°	4262.9	8.2
40°-50°	6292.9	12.0
50°-60°	10899.6	20.8
60°-70°	15395.9	29.4
70°-80°	8850.4	16.9
80°-90°	1221.1	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°	52280.0	100.0
0°-180°	52280.0	100.0

Coefficient of Utilization



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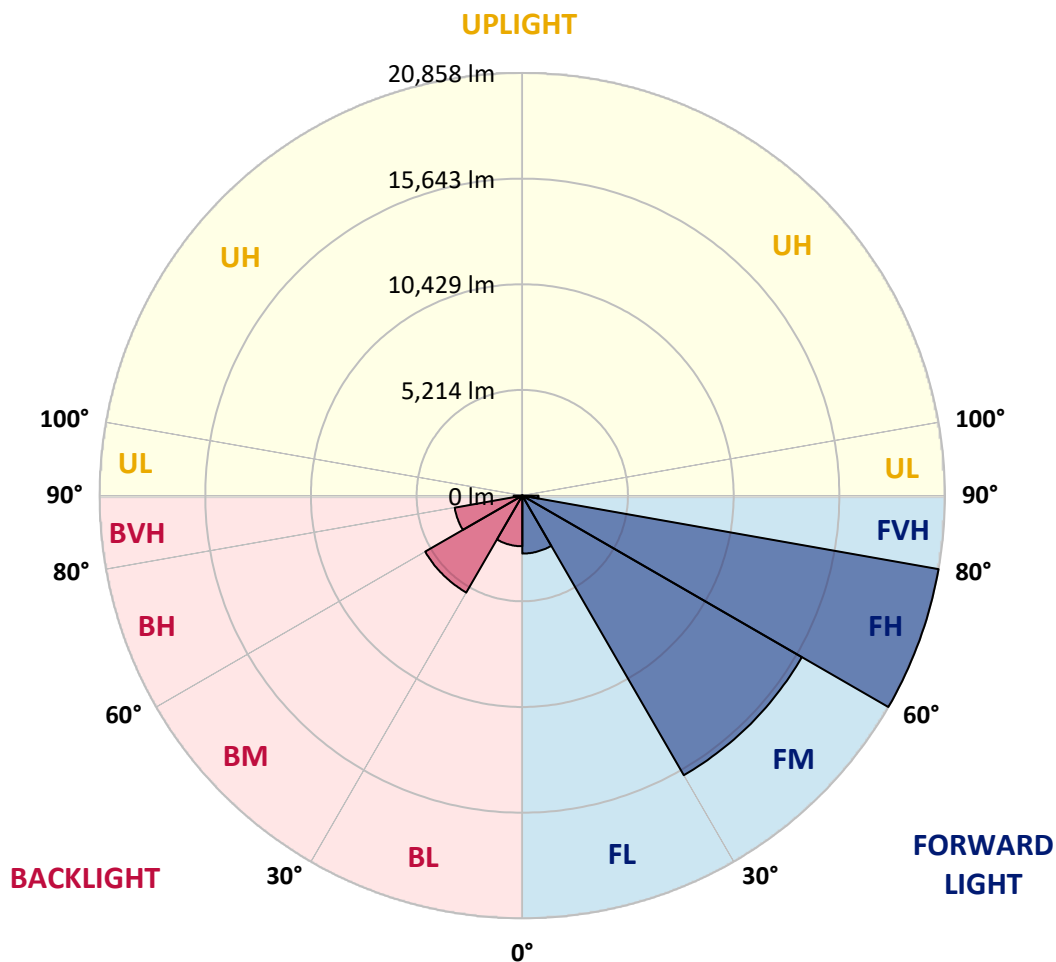
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2858.9	5.5			
FM	(30°-60°)	15928.7	30.5			
FH	(60°-80°)	20857.5	39.9			G5
FVH	(80°-90°)	797.7	1.5			G5
BL	(0°-30°)	2498.3	4.8	B3/2500		
BM	(30°-60°)	5526.6	10.6	B4/8500		
BH	(60°-80°)	3388.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	423.5	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°	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3
2.5°	5586.8	5567.2	5564.4	5522.4	5500.1	5458.1	5441.3	5402.2	5354.6	5307.0	5262.3
5°	6026.0	6026.0	6006.4	5947.7	5855.4	5760.2	5718.3	5642.7	5508.5	5399.4	5307.0
7.5°	6476.4	6482.0	6442.9	6356.1	6224.6	6070.8	6031.6	5919.7	5729.5	5570.0	5432.9
10°	6865.3	6865.3	6812.1	6694.6	6529.6	6361.7	6322.6	6196.7	5984.0	5785.4	5606.4
12.5°	7161.8	7161.8	7091.9	6938.0	6759.0	6607.9	6563.2	6442.9	6244.2	6023.2	5796.6
15°	7354.9	7340.9	7262.5	7089.1	6915.6	6784.2	6753.4	6652.7	6470.8	6247.0	5992.4
17.5°	7363.3	7357.7	7282.1	7136.7	6985.6	6896.1	6876.5	6809.3	6666.7	6454.0	6185.5
20°	7201.0	7212.2	7161.8	7058.3	6985.6	6946.4	6938.0	6915.6	6814.9	6616.3	6347.7
22.5°	7027.6	7047.1	6999.6	6943.6	6938.0	6977.2	6982.8	6988.4	6924.0	6731.0	6484.8
25°	6985.6	6999.6	6952.0	6901.7	6932.4	7035.9	7058.3	7080.7	7030.3	6868.1	6647.1
27.5°	7198.2	7187.0	7094.7	6985.6	7005.2	7145.1	7175.8	7201.0	7175.8	7035.9	6848.5
30°	7799.7	7763.3	7578.7	7259.8	7159.0	7257.0	7287.7	7357.7	7357.7	7254.2	7066.7
32.5°	8806.8	8736.9	8398.4	7771.7	7422.0	7363.3	7394.0	7508.7	7567.5	7486.4	7282.1
35°	10029.4	9956.6	9472.6	8630.6	7903.2	7575.9	7567.5	7696.2	7852.8	7671.0	7405.2
37.5°	11257.5	11182.0	10600.1	9654.5	8605.4	8023.5	7973.1	8017.9	8085.0	7752.1	7575.9
40°	12485.7	12396.1	11887.0	10798.7	9464.3	8616.6	8485.1	8283.7	8255.7	8017.9	7906.0
42.5°	13702.6	13621.5	13364.1	12082.8	10493.8	9195.7	8994.3	8647.4	8753.7	8611.0	8513.1
45°	14930.7	14936.3	14662.2	13523.6	11735.9	10264.4	9993.0	9450.3	9702.0	9648.9	9704.8
47.5°	16019.0	16005.0	15907.1	14922.4	13277.4	11640.8	11291.1	10661.6	11092.5	11288.3	11716.3
50°	17073.7	17065.3	17070.9	16508.6	15067.8	13277.4	12891.3	12231.1	13201.8	13881.7	14648.2
52.5°	18584.4	18632.0	18293.5	18145.2	17244.4	15210.5	14785.3	14102.7	15694.5	16766.0	18262.7
55°	20100.7	20061.5	19795.8	19949.6	19521.6	17498.9	17054.1	16511.4	18469.7	19641.9	21891.2
57.5°	20993.1	21007.1	21278.5	22031.0	22333.2	20352.5	19949.6	19530.0	21589.0	22419.9	25119.6
60°	21796.0	21860.4	22640.9	24062.1	24881.8	23857.9	23499.8	23091.3	24451.0	24781.1	27922.8
62.5°	22047.8	22246.5	23608.9	25735.1	27366.0	27813.7	27368.8	26468.0	27175.8	27047.1	29822.3
65°	20791.7	21063.1	23505.4	26361.7	29584.5	31568.0	31285.5	29612.5	29497.8	28722.9	30132.9
67.5°	17485.0	17756.3	20892.4	25046.8	30502.1	34818.8	34536.3	31906.5	30907.8	28879.5	27782.9
70°	12793.4	12964.0	15963.1	21088.2	28658.5	35909.9	36007.8	33025.6	30404.2	26750.6	22811.6
72.5°	7371.7	7749.3	9850.3	14835.6	23413.0	33151.5	33831.3	30698.0	27220.6	22316.4	15949.1
75°	3169.7	3178.1	4554.5	8183.0	15856.8	26647.1	27304.5	25446.9	21376.4	15431.5	8515.9
77.5°	1507.9	1535.9	2003.1	3653.7	8728.5	18411.0	20184.6	17977.3	13671.8	7413.6	3217.2
80°	979.2	998.7	1225.3	1812.8	4280.3	10675.6	11912.1	10370.7	6031.6	2649.3	1387.6
82.5°	593.1	598.7	819.7	1107.8	2355.6	4834.2	5698.7	4501.3	2573.8	1586.2	816.9
85°	360.9	363.7	498.0	685.4	1429.6	1670.2	1714.9	1700.9	1510.7	1037.9	436.4
87.5°	173.5	179.0	257.4	324.5	562.3	517.6	489.6	567.9	713.4	559.5	187.4
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°	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3	5248.3
2.5°	5242.7	5234.3	5214.7	5206.3	5200.7	5203.5	5200.7	5200.7	5203.5	5203.5	5203.5
5°	5267.9	5253.9	5223.1	5223.1	5239.9	5279.1	5315.4	5343.4	5374.2	5371.4	5371.4
7.5°	5377.0	5351.8	5315.4	5326.6	5368.6	5430.1	5494.5	5556.0	5617.6	5623.2	5620.4
10°	5536.4	5511.3	5472.1	5486.1	5553.2	5645.5	5726.7	5816.2	5883.3	5902.9	5897.3
12.5°	5718.3	5667.9	5634.4	5673.5	5779.8	5902.9	5981.3	6048.4	6096.0	6123.9	6112.7
15°	5902.9	5855.4	5816.2	5897.3	6026.0	6140.7	6179.9	6191.1	6199.5	6227.4	6221.8
17.5°	6082.0	6017.6	6003.6	6109.9	6233.0	6283.4	6261.0	6213.5	6177.1	6199.5	6196.7
20°	6241.4	6191.1	6185.5	6291.8	6339.3	6291.8	6196.7	6112.7	6048.4	6054.0	6051.2
22.5°	6392.5	6353.3	6358.9	6403.7	6328.2	6165.9	6009.2	5894.5	5824.6	5838.6	5847.0
25°	6560.4	6521.2	6535.2	6462.4	6213.5	5930.9	5704.3	5606.4	5578.4	5606.4	5626.0
27.5°	6778.6	6753.4	6745.0	6465.2	6009.2	5584.0	5326.6	5290.2	5315.4	5377.0	5407.7
30°	7013.6	7013.6	6968.8	6417.7	5729.5	5167.2	4943.3	4948.9	5035.7	5122.4	5153.2
32.5°	7240.2	7287.7	7147.8	6289.0	5368.6	4761.5	4590.8	4596.4	4672.0	4778.3	4806.3
35°	7427.6	7564.7	7301.7	6054.0	4943.3	4420.2	4291.5	4216.0	4218.8	4299.9	4322.3
37.5°	7685.0	7939.6	7391.2	5704.3	4490.1	4129.2	3983.8	3852.3	3765.6	3732.0	3732.0
40°	8132.6	8507.5	7413.6	5186.7	4062.1	3852.3	3645.3	3488.6	3320.7	3169.7	3141.7
42.5°	8890.7	9363.5	7368.9	4590.8	3676.0	3547.3	3345.9	3152.9	2920.7	2708.1	2691.3
45°	10233.6	10477.0	7248.6	3972.6	3331.9	3253.6	3057.8	2847.9	2601.8	2411.5	2397.5
47.5°	12384.9	12040.8	7089.1	3424.3	3018.6	2996.2	2845.2	2601.8	2355.6	2224.1	2210.1
50°	15526.6	14502.7	7066.7	3027.0	2766.8	2778.0	2654.9	2431.1	2215.7	2106.6	2089.8
52.5°	19309.0	17476.6	7215.0	2747.2	2545.8	2587.8	2526.2	2319.2	2129.0	2036.6	2019.9
55°	22979.4	20151.1	7304.5	2529.0	2338.8	2417.1	2425.5	2252.1	2078.6	1986.3	1975.1
57.5°	25958.9	22165.3	6907.3	2330.4	2159.7	2280.0	2341.6	2212.9	2053.4	1983.5	1972.3
60°	28031.9	23116.5	5777.0	2154.1	2028.3	2170.9	2310.8	2215.7	2115.0	2123.4	2129.0
62.5°	28692.1	22694.1	4333.5	2022.7	1938.7	2134.6	2361.2	2330.4	2226.9	2291.2	2302.4
65°	27598.2	20948.4	3141.7	1919.1	1860.4	2159.7	2512.2	2414.3	2187.7	2235.3	2235.3
67.5°	23936.2	18047.3	2445.1	1824.0	1770.9	2207.3	2663.3	2405.9	2095.4	2151.3	2101.0
70°	18987.3	13960.0	2036.6	1717.7	1675.8	2137.4	2677.3	2319.2	1986.3	1997.5	1902.4
72.5°	12600.4	9178.9	1751.3	1617.0	1530.3	1921.9	2562.6	2207.3	1880.0	1815.6	1720.5
75°	6174.3	4576.9	1527.5	1491.1	1340.0	1673.0	2405.9	2101.0	1765.3	1664.6	1611.4
77.5°	2391.9	1947.1	1303.7	1331.7	1166.6	1474.3	2198.9	1949.9	1614.2	1477.1	1435.2
80°	1161.0	1105.0	1068.7	1110.6	959.6	1256.1	2008.7	1818.4	1474.3	1323.3	1261.7
82.5°	721.8	682.6	819.7	864.5	738.6	1147.0	1905.2	1706.5	1298.1	1096.7	1046.3
85°	366.5	391.7	548.3	590.3	528.7	912.0	1569.4	1281.3	937.2	777.7	783.3
87.5°	139.9	187.4	288.2	310.5	282.6	481.2	864.5	747.0	601.5	408.4	377.7
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)