

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: P522894

Luminaire Tested: **GALN-SA8D-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522894
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-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 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: 56932 lumens
Efficiency: N/A
Efficacy: 115.5 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

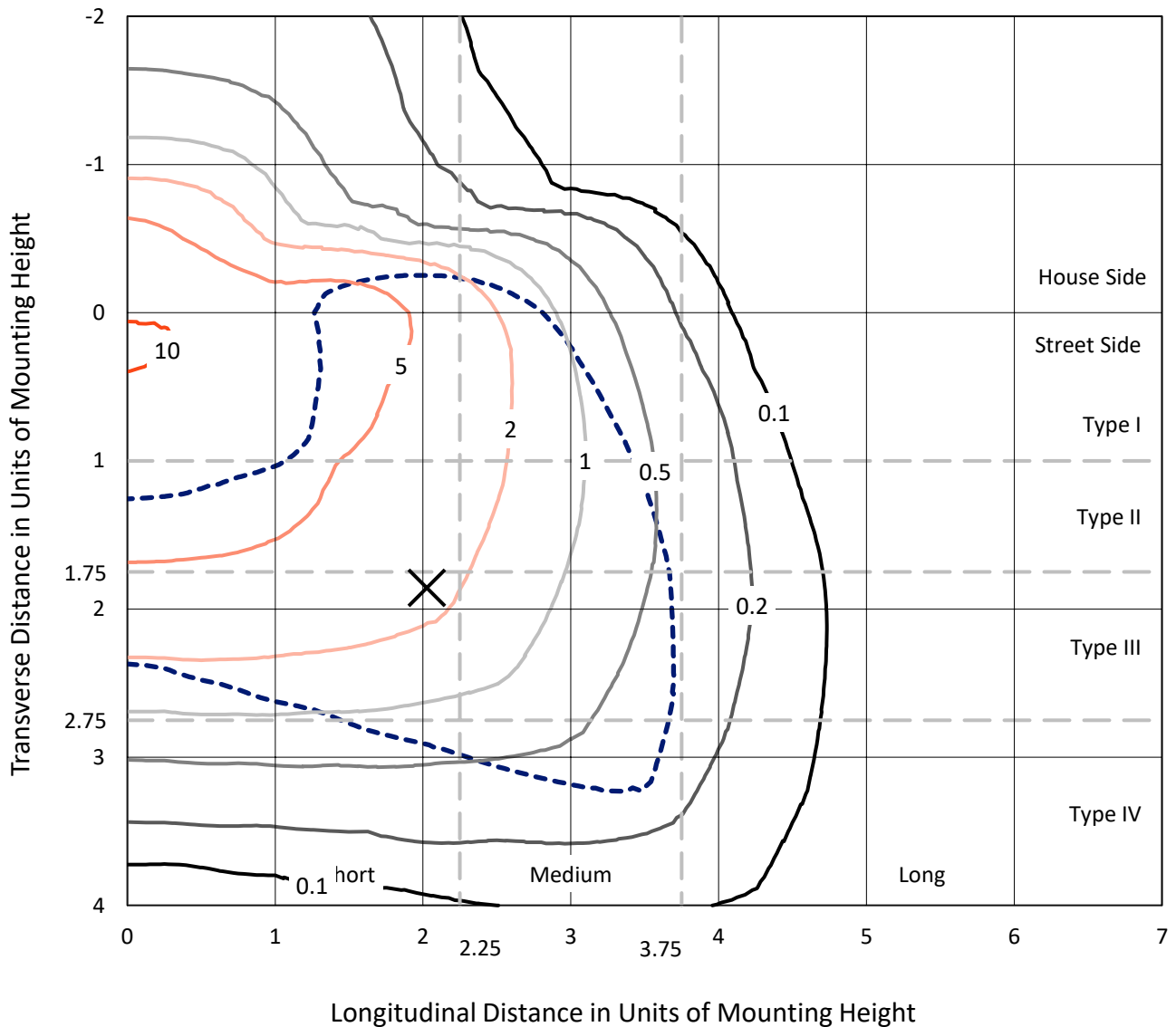
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

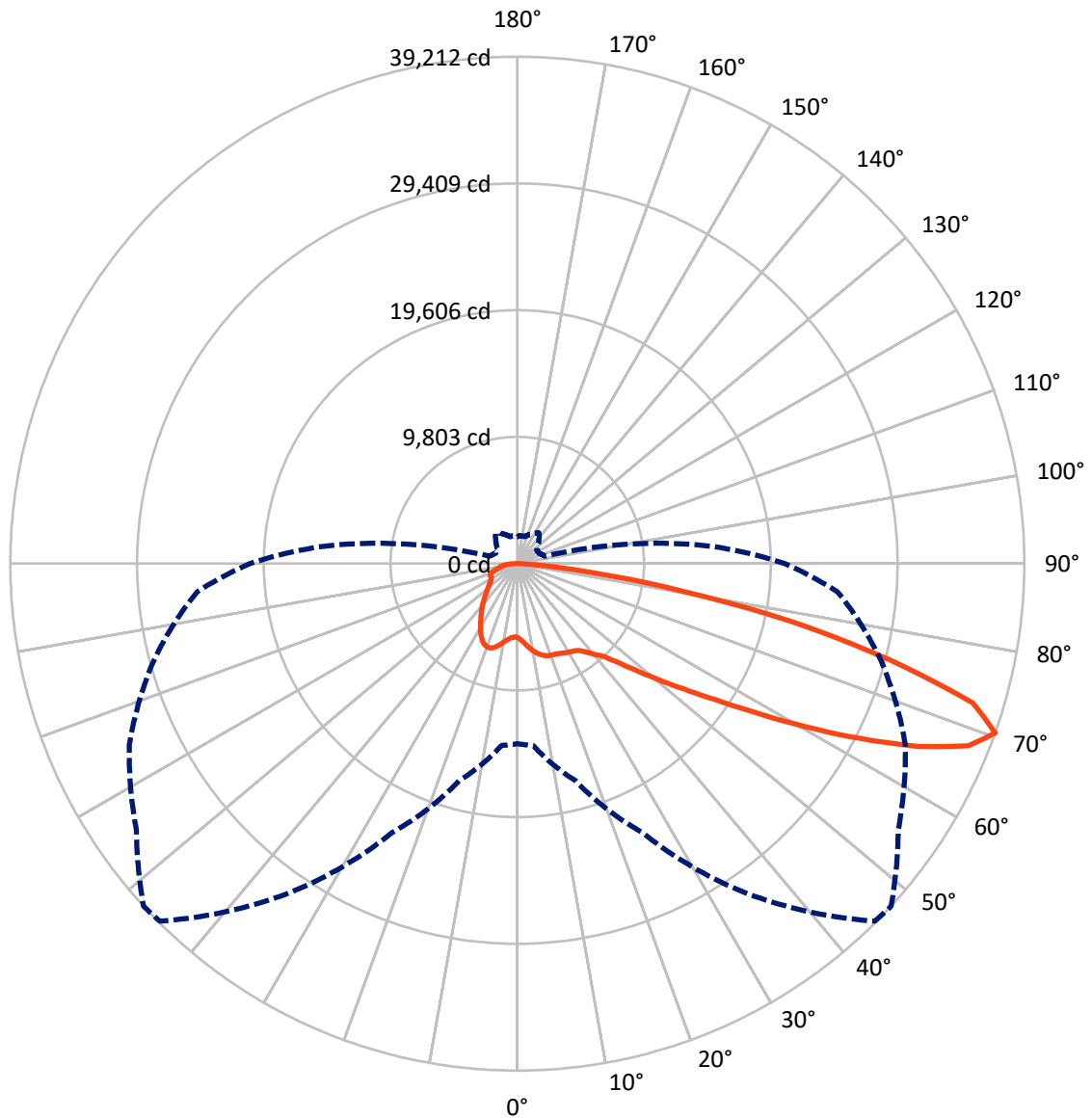
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	12890.5	0.0	12890.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	44041.5	0.0	44041.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	56932.0	0.0	56932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.1	1.0
10°-20°	1969.5	3.5
20°-30°	3275.2	5.8
30°-40°	4642.2	8.2
40°-50°	6852.8	12.0
50°-60°	11869.4	20.8
60°-70°	16765.9	29.4
70°-80°	9638.0	16.9
80°-90°	1329.8	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°	56932.0	100.0
0°-180°	56932.0	100.0

Coefficient of Utilization



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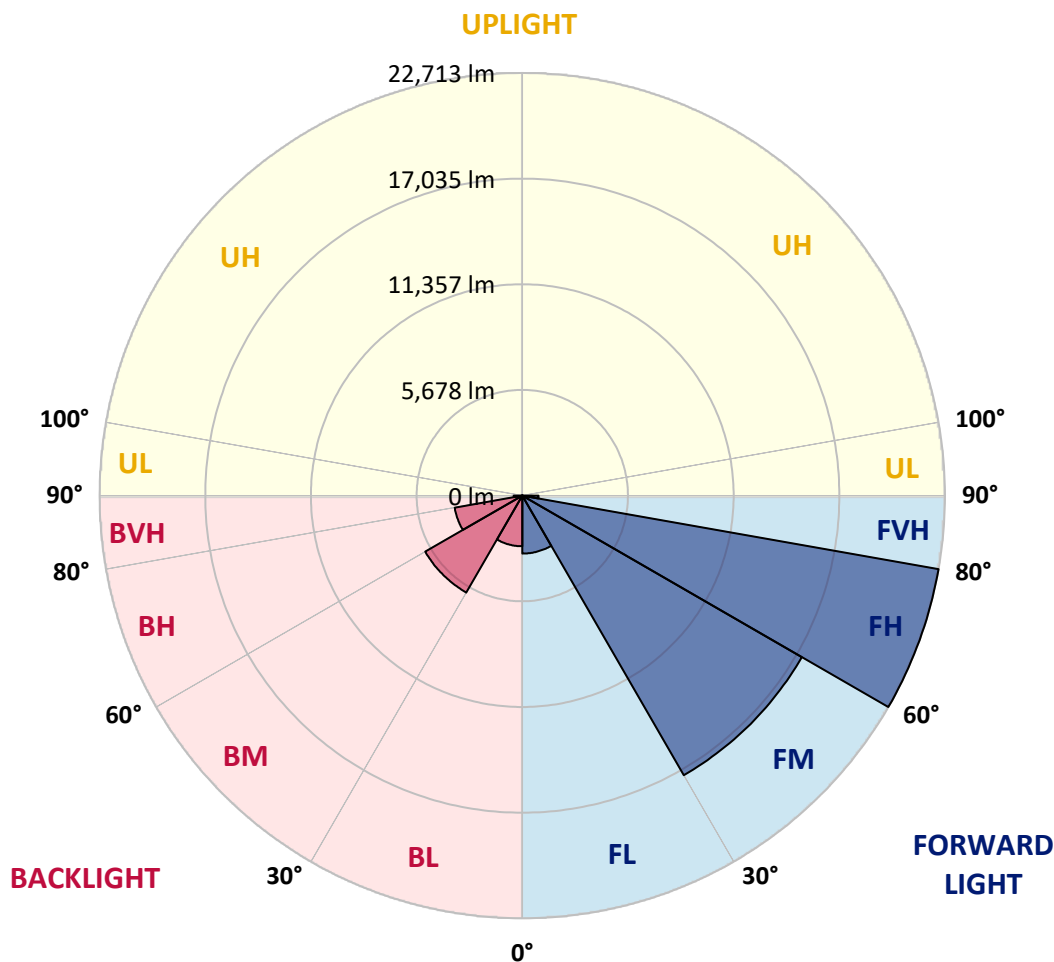
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3113.2	5.5			
FM	(30°-60°)	17346.1	30.5			
FH	(60°-80°)	22713.5	39.9			G5
FVH	(80°-90°)	868.7	1.5			G5
BL	(0°-30°)	2720.6	4.8	B4/5000		
BM	(30°-60°)	6018.4	10.6	B4/8500		
BH	(60°-80°)	3690.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	461.1	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°	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3
2.5°	6083.9	6062.6	6059.5	6013.8	5989.5	5943.8	5925.5	5882.8	5831.1	5779.3	5730.5
5°	6562.2	6562.2	6540.9	6476.9	6376.4	6272.8	6227.1	6144.8	5998.6	5879.8	5779.3
7.5°	7052.7	7058.8	7016.2	6921.7	6778.5	6611.0	6568.3	6446.5	6239.3	6065.6	5916.4
10°	7476.2	7476.2	7418.3	7290.3	7110.6	6927.8	6885.2	6748.1	6516.5	6300.2	6105.2
12.5°	7799.1	7799.1	7723.0	7555.4	7360.4	7195.9	7147.2	7016.2	6799.9	6559.2	6312.4
15°	8009.3	7994.1	7908.8	7719.9	7531.0	7387.8	7354.3	7244.6	7046.6	6802.9	6525.7
17.5°	8018.5	8012.4	7930.1	7771.7	7607.2	7509.7	7488.4	7415.3	7259.9	7028.3	6735.9
20°	7841.8	7854.0	7799.1	7686.4	7607.2	7564.5	7555.4	7531.0	7421.3	7205.0	6912.6
22.5°	7652.9	7674.2	7622.4	7561.5	7555.4	7598.0	7604.1	7610.2	7540.2	7329.9	7061.9
25°	7607.2	7622.4	7570.6	7515.8	7549.3	7662.0	7686.4	7710.8	7655.9	7479.2	7238.6
27.5°	7838.7	7826.5	7726.0	7607.2	7628.5	7780.8	7814.3	7841.8	7814.3	7662.0	7457.9
30°	8493.7	8454.1	8253.0	7905.7	7796.1	7902.7	7936.2	8012.4	8012.4	7899.6	7695.5
32.5°	9590.5	9514.3	9145.7	8463.3	8082.4	8018.5	8052.0	8176.9	8240.9	8152.5	7930.1
35°	10921.8	10842.6	10315.5	9398.5	8606.4	8250.0	8240.9	8381.0	8551.6	8353.6	8064.2
37.5°	12259.2	12177.0	11543.3	10513.6	9371.1	8737.4	8682.6	8731.4	8804.5	8441.9	8250.0
40°	13596.7	13499.2	12944.7	11759.6	10306.4	9383.3	9240.1	9020.8	8990.3	8731.4	8609.5
42.5°	14921.9	14833.5	14553.3	13158.0	11427.5	10013.9	9794.6	9416.8	9532.6	9377.2	9270.6
45°	16259.3	16265.4	15966.9	14726.9	12780.2	11177.7	10882.2	10291.2	10565.4	10507.5	10568.4
47.5°	17444.4	17429.2	17322.6	16250.2	14458.8	12676.6	12295.8	11610.3	12079.5	12292.7	12758.9
50°	18593.0	18583.8	18589.9	17977.6	16408.6	14458.8	14038.4	13319.4	14376.6	15116.9	15951.6
52.5°	20238.1	20289.9	19921.3	19759.8	18778.8	16564.0	16100.9	15357.6	17091.0	18257.8	19887.7
55°	21889.3	21846.7	21557.2	21724.8	21258.7	19056.0	18571.6	17980.6	20113.2	21389.7	23839.1
57.5°	22861.2	22876.4	23171.9	23991.4	24320.4	22163.5	21724.8	21267.8	23510.1	24414.9	27354.8
60°	23735.5	23805.6	24655.6	26203.2	27095.8	25980.8	25590.8	25146.0	26626.7	26986.2	30407.4
62.5°	24009.7	24226.0	25709.7	28025.0	29801.1	30288.6	29804.2	28823.2	29594.0	29453.8	32476.0
65°	22641.8	22937.3	25596.9	28707.4	32217.0	34377.0	34069.3	32247.5	32122.6	31278.7	32814.2
67.5°	19040.8	19336.3	22751.5	27275.6	33216.3	37917.1	37609.4	34745.7	33658.0	31449.3	30255.1
70°	13931.8	14117.6	17383.5	22964.7	31208.6	39105.2	39211.9	35964.3	33109.7	29130.9	24841.4
72.5°	8027.6	8438.9	10726.8	16155.7	25496.4	36101.4	36841.7	33429.6	29642.7	24302.2	17368.3
75°	3451.7	3460.9	4959.7	8911.1	17267.7	29018.2	29734.1	27711.2	23278.5	16804.7	9273.6
77.5°	1642.1	1672.5	2181.3	3978.8	9505.2	20049.2	21980.7	19577.0	14888.4	8073.3	3503.5
80°	1066.3	1087.6	1334.4	1974.2	4661.2	11625.6	12972.1	11293.5	6568.3	2885.1	1511.1
82.5°	645.9	652.0	892.6	1206.4	2565.2	5264.4	6205.8	4901.9	2802.8	1727.4	889.6
85°	393.0	396.0	542.3	746.4	1556.8	1818.8	1867.5	1852.3	1645.1	1130.3	475.3
87.5°	188.9	195.0	280.3	353.4	612.4	563.6	533.1	618.4	776.9	609.3	204.1
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°	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3	5715.3
2.5°	5709.2	5700.1	5678.7	5669.6	5663.5	5666.5	5663.5	5663.5	5666.5	5666.5	5666.5
5°	5736.6	5721.4	5687.9	5687.9	5706.1	5748.8	5788.4	5818.9	5852.4	5849.3	5849.3
7.5°	5855.4	5828.0	5788.4	5800.6	5846.3	5913.3	5983.4	6050.4	6117.4	6123.5	6120.5
10°	6029.1	6001.7	5959.0	5974.2	6047.4	6147.9	6236.2	6333.7	6406.8	6428.2	6422.1
12.5°	6227.1	6172.3	6135.7	6178.4	6294.1	6428.2	6513.5	6586.6	6638.4	6668.9	6656.7
15°	6428.2	6376.4	6333.7	6422.1	6562.2	6687.1	6729.8	6742.0	6751.1	6781.6	6775.5
17.5°	6623.2	6553.1	6537.9	6653.6	6787.7	6842.5	6818.1	6766.3	6726.7	6751.1	6748.1
20°	6796.8	6742.0	6735.9	6851.6	6903.4	6851.6	6748.1	6656.7	6586.6	6592.7	6589.6
22.5°	6961.3	6918.7	6924.8	6973.5	6891.2	6714.5	6543.9	6419.0	6342.9	6358.1	6367.2
25°	7144.1	7101.5	7116.7	7037.5	6766.3	6458.6	6211.9	6105.2	6074.8	6105.2	6126.6
27.5°	7381.7	7354.3	7345.2	7040.5	6543.9	6080.9	5800.6	5761.0	5788.4	5855.4	5888.9
30°	7637.6	7637.6	7588.9	6988.7	6239.3	5626.9	5383.2	5389.3	5483.8	5578.2	5611.7
32.5°	7884.4	7936.2	7783.9	6848.6	5846.3	5185.2	4999.4	5005.4	5087.7	5203.5	5233.9
35°	8088.5	8237.8	7951.4	6592.7	5383.2	4813.5	4673.4	4591.1	4594.2	4682.5	4706.9
37.5°	8368.8	8646.0	8048.9	6211.9	4889.7	4496.7	4338.3	4195.1	4100.6	4064.1	4064.1
40°	8856.3	9264.5	8073.3	5648.3	4423.6	4195.1	3969.6	3799.0	3616.2	3451.7	3421.3
42.5°	9681.9	10196.7	8024.6	4999.4	4003.1	3863.0	3643.6	3433.4	3180.6	2949.0	2930.8
45°	11144.2	11409.2	7893.6	4326.1	3628.4	3543.1	3329.9	3101.4	2833.3	2626.1	2610.9
47.5°	13487.0	13112.3	7719.9	3729.0	3287.2	3262.8	3098.3	2833.3	2565.2	2422.0	2406.8
50°	16908.2	15793.2	7695.5	3296.3	3013.0	3025.2	2891.2	2647.4	2412.9	2294.0	2275.8
52.5°	21027.1	19031.7	7857.0	2991.7	2772.3	2818.0	2751.0	2525.6	2318.4	2217.9	2199.6
55°	25024.2	21944.1	7954.5	2754.1	2546.9	2632.2	2641.3	2452.5	2263.6	2163.0	2150.8
57.5°	28268.7	24137.6	7521.9	2537.8	2351.9	2482.9	2549.9	2409.8	2236.2	2160.0	2147.8
60°	30526.2	25173.5	6291.1	2345.8	2208.7	2364.1	2516.4	2412.9	2303.2	2312.3	2318.4
62.5°	31245.2	24713.4	4719.1	2202.6	2111.2	2324.5	2571.3	2537.8	2425.0	2495.1	2507.3
65°	30054.0	22812.4	3421.3	2089.9	2025.9	2351.9	2735.8	2629.2	2382.4	2434.2	2434.2
67.5°	26066.1	19653.2	2662.7	1986.3	1928.5	2403.7	2900.3	2620.0	2281.8	2342.8	2287.9
70°	20676.8	15202.2	2217.9	1870.6	1824.9	2327.5	2915.5	2525.6	2163.0	2175.2	2071.6
72.5°	13721.6	9995.7	1907.1	1760.9	1666.5	2093.0	2790.6	2403.7	2047.3	1977.2	1873.6
75°	6723.7	4984.1	1663.4	1623.8	1459.3	1821.8	2620.0	2287.9	1922.4	1812.7	1754.8
77.5°	2604.8	2120.4	1419.7	1450.1	1270.4	1605.5	2394.6	2123.4	1757.8	1608.6	1562.9
80°	1264.3	1203.4	1163.8	1209.5	1045.0	1367.9	2187.4	1980.2	1605.5	1441.0	1374.0
82.5°	786.0	743.4	892.6	941.4	804.3	1249.1	2074.7	1858.4	1413.6	1194.2	1139.4
85°	399.1	426.5	597.1	642.8	575.8	993.2	1709.1	1395.3	1020.6	846.9	853.0
87.5°	152.3	204.1	313.8	338.2	307.7	524.0	941.4	813.4	655.0	444.8	411.3
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)