

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: P457346

Luminaire Tested: **GALN-SA8C-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457346
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-SA8C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44736 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 429
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

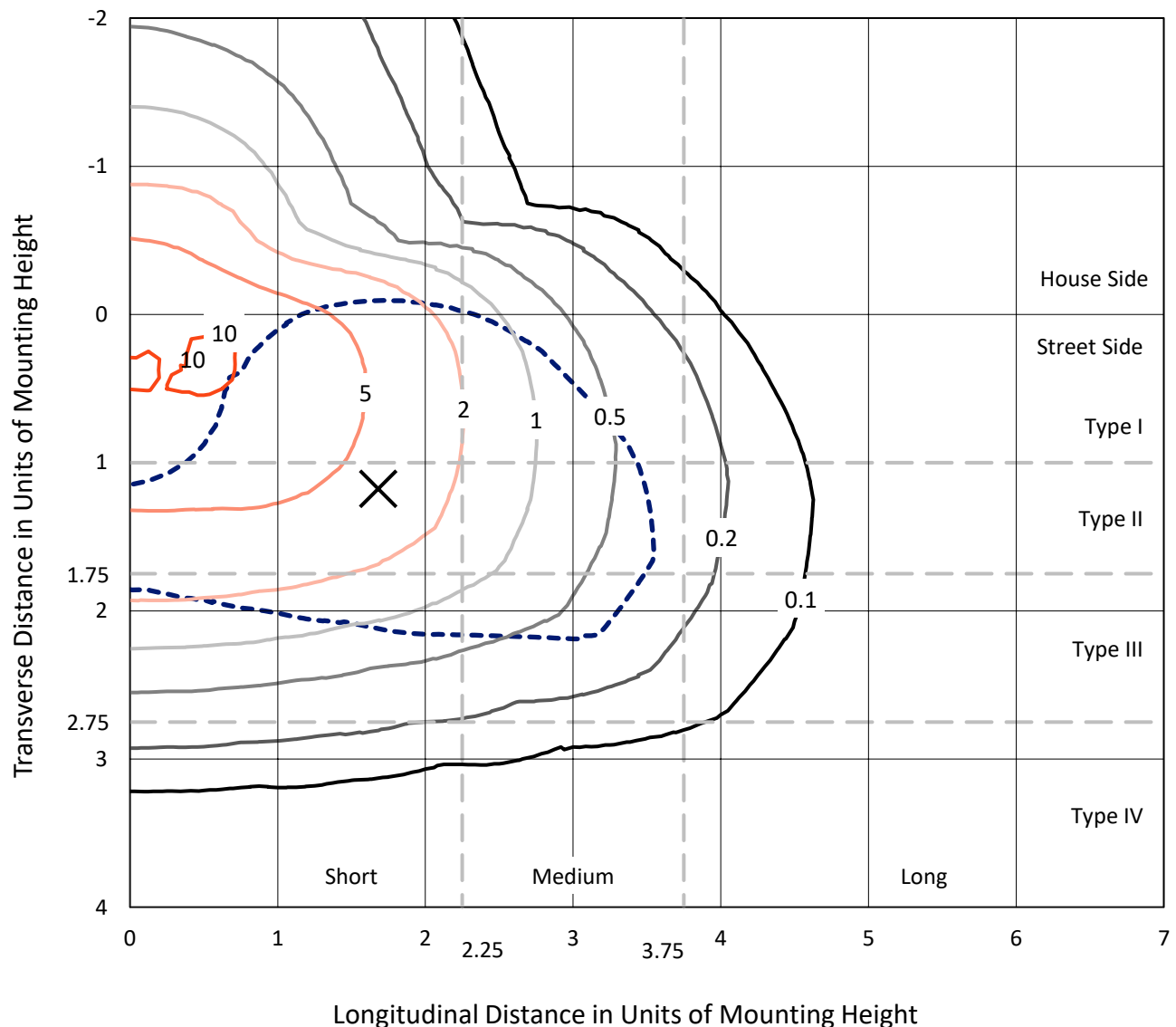


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

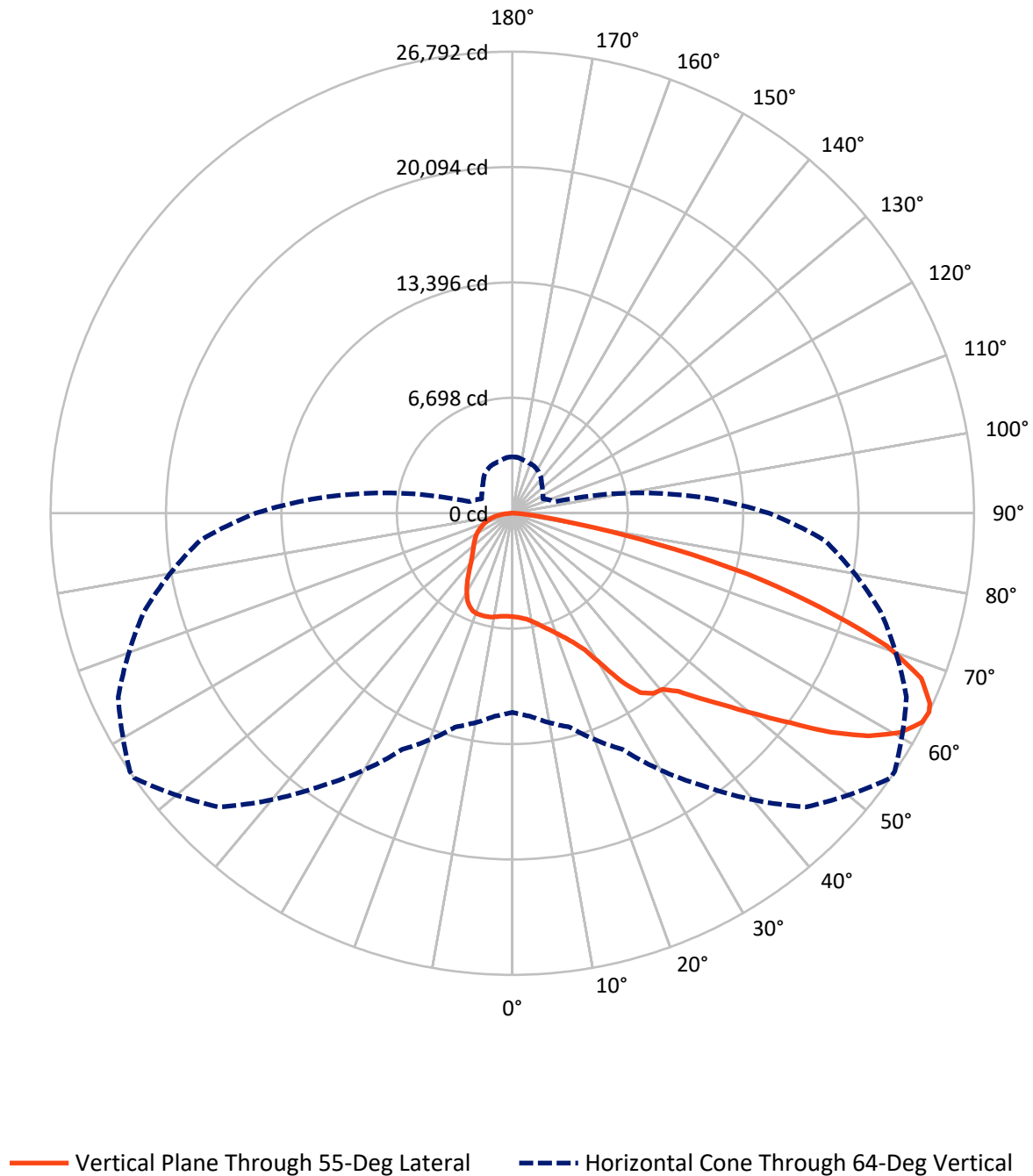


Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10867.3	0.0	10867.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	33868.8	0.0	33868.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	44736.0	0.0	44736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	583.9	1.3
10°-20°	1842.2	4.1
20°-30°	3279.7	7.3
30°-40°	5046.1	11.3
40°-50°	7153.3	16.0
50°-60°	10354.2	23.1
60°-70°	10715.5	24.0
70°-80°	5018.1	11.2
80°-90°	742.9	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°	44736.0	100.0
0°-180°	44736.0	100.0

Coefficient of Utilization



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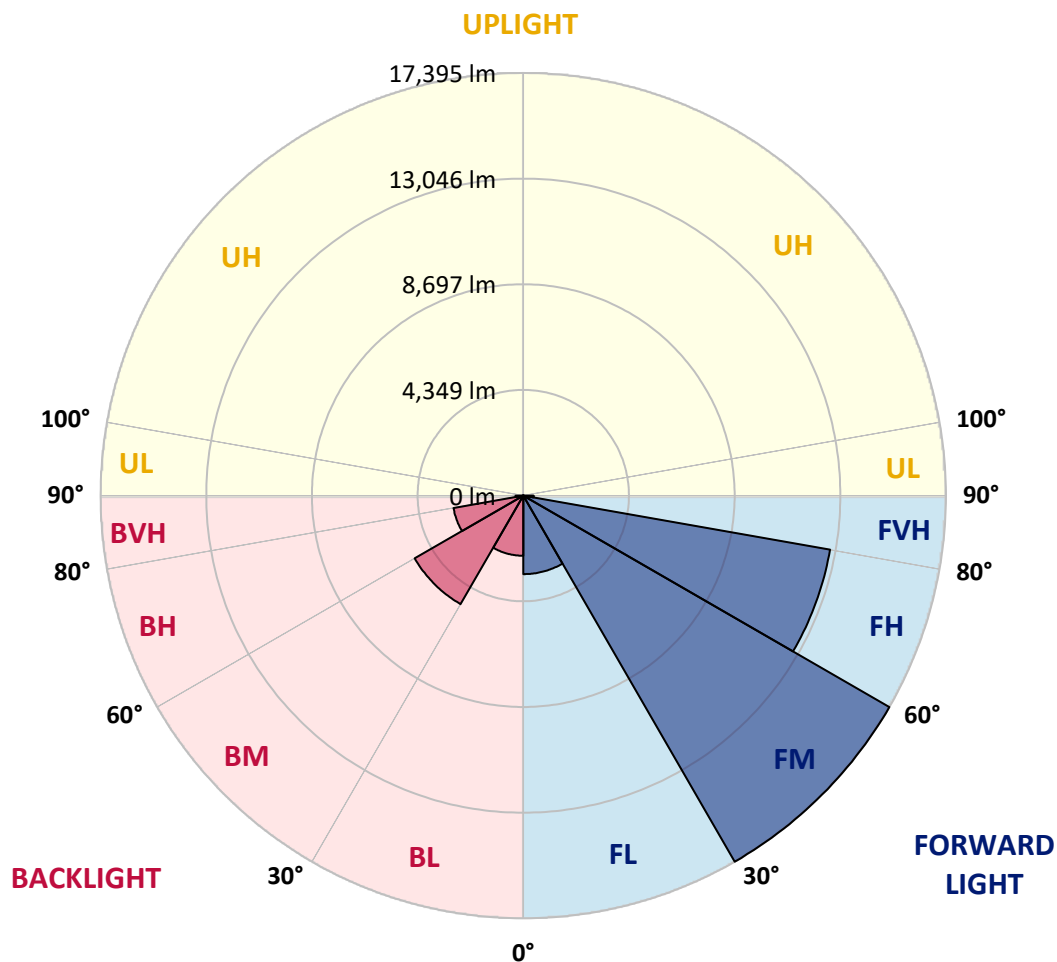
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3230.7	7.2			
FM	(30°-60°)	17394.6	38.9			
FH	(60°-80°)	12818.2	28.7			G5
FVH	(80°-90°)	425.4	1.0			G3/500
BL	(0°-30°)	2475.1	5.5	B3/2500		
BM	(30°-60°)	5159.1	11.5	B4/8500		
BH	(60°-80°)	2915.5	6.5	B4/5000		G4/5000
BVH	(80°-90°)	317.5	0.7			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2
2.5°	6069.5	6067.1	6074.5	6067.1	6072.0	6054.6	6047.1	6052.1	6044.6	6032.1	6009.7
5°	6144.4	6141.9	6144.4	6134.4	6139.4	6129.4	6111.9	6116.9	6104.5	6077.0	6044.6
7.5°	6271.5	6261.6	6261.6	6259.1	6249.1	6234.1	6221.7	6216.7	6204.2	6169.3	6119.4
10°	6436.1	6436.1	6438.6	6418.7	6431.1	6403.7	6391.2	6388.7	6346.3	6301.5	6231.6
12.5°	6653.1	6665.5	6658.1	6648.1	6643.1	6633.1	6590.7	6600.7	6553.3	6476.0	6391.2
15°	6922.4	6942.3	6929.9	6924.9	6912.4	6875.0	6857.5	6850.1	6787.7	6675.5	6563.3
17.5°	7279.0	7254.0	7244.1	7231.6	7179.2	7151.8	7121.9	7116.9	7062.0	6929.9	6755.3
20°	7590.7	7625.6	7605.6	7593.2	7540.8	7488.4	7466.0	7458.5	7411.1	7266.5	6987.2
22.5°	7962.2	7969.7	7977.2	7947.3	7922.3	7882.4	7842.5	7830.1	7812.6	7663.0	7321.4
25°	8358.7	8388.6	8363.7	8333.8	8303.9	8301.4	8338.8	8333.8	8326.3	8181.7	7765.2
27.5°	9004.6	9032.0	9039.5	9007.1	8892.4	8902.3	8987.1	9014.6	9129.3	8889.9	8336.3
30°	9368.7	9396.1	9458.4	9580.6	9762.6	9922.2	10126.7	10189.1	10298.8	9847.4	9014.6
32.5°	9593.1	9603.1	9715.3	9942.2	10488.3	11084.3	11640.4	11662.8	11732.6	11099.2	9635.5
35°	9947.2	9954.7	10044.4	10293.8	10934.7	11927.1	12787.4	12814.9	12757.5	11488.3	9924.7
37.5°	10383.6	10403.5	10460.9	10667.8	11433.4	12632.8	13263.7	13243.8	12735.1	11797.5	10435.9
40°	11019.4	11019.4	10952.1	11231.4	11959.6	13036.8	13430.8	13395.9	13261.2	12692.7	11214.0
42.5°	11580.5	11570.5	11730.1	11919.7	12617.9	13660.2	14131.5	14188.9	14410.8	13817.3	12099.2
45°	12311.2	12356.0	12445.8	12789.9	13737.5	14725.0	15333.5	15388.3	15702.5	15141.5	13134.1
47.5°	13049.3	13064.2	13346.0	13804.9	15124.0	16168.8	16667.6	16757.3	17044.1	16690.0	14248.7
50°	13572.9	13715.1	14166.4	14889.6	16552.9	17929.4	18318.4	18425.6	18931.8	18375.7	15547.9
52.5°	14126.5	14266.2	14817.3	15919.5	18193.7	19729.8	20208.6	20280.9	20807.0	20081.4	16877.0
55°	14600.3	14730.0	15355.9	16832.2	19500.4	21567.6	22435.4	22350.6	22602.5	21395.5	17901.9
57.5°	14677.6	14782.4	15570.4	17415.7	20482.9	23143.6	24387.9	24437.8	24146.0	22378.0	18747.3
60°	14079.2	14293.6	15198.8	17353.3	20924.2	24240.8	25844.2	25879.1	25051.2	22881.8	19083.9
62.5°	13019.4	12996.9	14091.6	16350.9	20305.8	24490.2	26702.0	26664.6	25405.3	22639.9	18757.3
64°	11555.6	11824.9	12847.3	15119.0	19308.3	24106.1	26791.8	26771.9	25235.8	22136.2	18201.2
65°	10662.9	10647.9	11657.8	14111.6	18315.9	23527.6	26632.2	26604.8	24881.7	21684.8	17769.8
67.5°	7697.9	7732.8	8730.3	10889.8	14889.6	21265.9	25592.4	25490.1	23485.2	20188.6	16128.9
70°	4663.1	4683.1	5466.1	7224.1	10687.8	17191.2	23068.8	23073.8	21348.2	17954.3	13727.6
72.5°	2456.2	2508.6	2822.8	4102.1	6491.0	12061.8	18714.9	19158.7	18328.3	15323.5	10844.9
75°	1366.5	1374.0	1595.9	2022.4	3311.6	6750.3	14066.7	14193.9	14510.6	12333.6	8019.6
77.5°	1042.3	1057.3	1127.1	1306.7	1802.9	3129.5	8513.3	9151.7	10226.5	8695.4	4575.9
80°	845.3	860.3	920.2	1027.4	1199.4	1483.7	3954.9	4299.1	5473.6	3860.2	1785.5
82.5°	658.3	648.3	725.7	795.5	872.8	877.8	1623.4	1795.4	2229.3	1660.8	773.0
85°	488.8	488.8	551.1	536.1	563.6	513.7	715.7	790.5	892.7	705.7	359.1
87.5°	194.5	214.5	361.6	324.2	251.9	202.0	264.3	279.3	309.2	276.8	149.6
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°	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2	6002.2
2.5°	6012.2	6019.7	6002.2	5989.8	5984.8	5977.3	5969.8	5972.3	5982.3	5992.2	5989.8
5°	6042.1	6044.6	6014.7	5999.7	5989.8	5979.8	5979.8	5987.3	6007.2	6022.2	6022.2
7.5°	6116.9	6116.9	6074.5	6047.1	6032.1	6014.7	6009.7	6012.2	6027.2	6047.1	6049.6
10°	6234.1	6224.2	6169.3	6126.9	6099.5	6057.1	6019.7	5999.7	6007.2	6019.7	6019.7
12.5°	6376.3	6348.8	6279.0	6221.7	6154.3	6074.5	5997.2	5957.3	5954.8	5967.3	5962.3
15°	6528.4	6498.5	6401.2	6296.5	6179.3	6062.1	5969.8	5912.4	5867.6	5855.1	5882.5
17.5°	6705.4	6643.1	6508.4	6363.8	6189.2	6037.1	5892.5	5775.3	5695.5	5673.1	5680.5
20°	6919.9	6837.6	6655.6	6428.6	6181.8	5947.4	5722.9	5565.8	5436.2	5396.3	5401.3
22.5°	7216.6	7074.5	6807.7	6461.1	6119.4	5777.8	5466.1	5261.6	5104.5	5042.2	5079.6
25°	7553.3	7398.7	6952.3	6453.6	5957.3	5506.0	5161.9	4895.0	4752.9	4660.6	4680.6
27.5°	8017.1	7742.8	7106.9	6386.2	5725.4	5174.3	4775.3	4523.5	4393.8	4346.4	4368.9
30°	8610.6	8189.2	7274.0	6204.2	5358.9	4755.4	4386.3	4221.8	4144.5	4084.6	4104.6
32.5°	9039.5	8503.4	7311.4	5897.5	4962.4	4373.9	4122.0	3999.8	3915.0	3857.7	3870.1
35°	9346.2	8770.2	7293.9	5520.9	4548.4	4059.7	3912.5	3812.8	3675.6	3551.0	3528.5
37.5°	9757.7	9104.3	7166.8	5109.5	4139.5	3847.7	3743.0	3558.4	3361.4	3194.4	3186.9
40°	10388.6	9495.8	6894.9	4625.7	3790.4	3690.6	3563.4	3324.0	3112.1	2977.4	2967.4
42.5°	11039.4	9857.4	6525.9	4117.0	3503.6	3526.0	3371.4	3134.5	3004.9	2917.6	2907.6
45°	11834.9	10248.9	6126.9	3675.6	3291.6	3371.4	3204.3	3067.2	2989.9	2932.5	2917.6
47.5°	12695.2	10650.4	5678.0	3279.2	3112.1	3229.3	3134.5	3072.2	3029.8	2989.9	2972.4
50°	13622.8	11099.2	5256.6	2960.0	2950.0	3082.2	3127.0	3104.6	3079.7	3067.2	3052.2
52.5°	14640.2	11558.1	4902.5	2735.5	2807.9	2977.4	3129.5	3147.0	3147.0	3139.5	3129.5
55°	15328.5	11877.3	4543.4	2553.5	2663.2	2892.6	3124.5	3191.9	3216.8	3206.8	3196.9
57.5°	15837.2	12051.8	4092.1	2396.4	2541.0	2810.3	3097.1	3196.9	3221.8	3234.3	3229.3
60°	15941.9	11889.7	3501.1	2231.8	2408.9	2690.7	2997.4	3122.1	3154.5	3231.8	3239.3
62.5°	15470.6	11391.0	2912.6	2069.7	2246.8	2508.6	2862.7	3037.3	3102.1	3221.8	3234.3
64°	14892.1	10832.4	2585.9	1967.5	2142.0	2406.4	2795.4	3014.8	3099.6	3259.2	3269.2
65°	14468.2	10426.0	2381.4	1902.7	2074.7	2339.0	2758.0	3022.3	3122.1	3316.6	3331.5
67.5°	12907.1	9027.0	1970.0	1750.5	1915.1	2224.3	2765.5	3084.6	3117.1	3339.0	3336.5
70°	10680.3	7186.7	1650.8	1610.9	1760.5	2132.1	2735.5	2984.9	2987.4	3134.5	3099.6
72.5°	7997.1	5311.5	1431.4	1466.3	1588.5	1912.6	2583.4	2850.2	2807.9	2827.8	2792.9
75°	5493.5	3513.6	1231.9	1311.7	1408.9	1690.7	2369.0	2588.4	2521.1	2496.1	2471.2
77.5°	2932.5	1942.6	1024.9	1159.5	1224.4	1461.3	2067.2	2279.2	2209.4	2112.1	2079.7
80°	1187.0	915.2	825.4	960.1	997.5	1177.0	1720.6	1852.8	1800.4	1630.8	1576.0
82.5°	596.0	548.6	648.3	755.6	758.1	840.4	1279.2	1403.9	1286.7	1079.8	1032.4
85°	311.7	321.7	446.4	531.1	468.8	453.8	768.0	850.3	780.5	678.3	610.9
87.5°	112.2	129.7	234.4	231.9	164.6	87.3	169.6	82.3	44.9	27.4	34.9
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)