

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: P455490

Luminaire Tested: **GALN-SA6C-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455490
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-SA6C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 32852 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 321
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

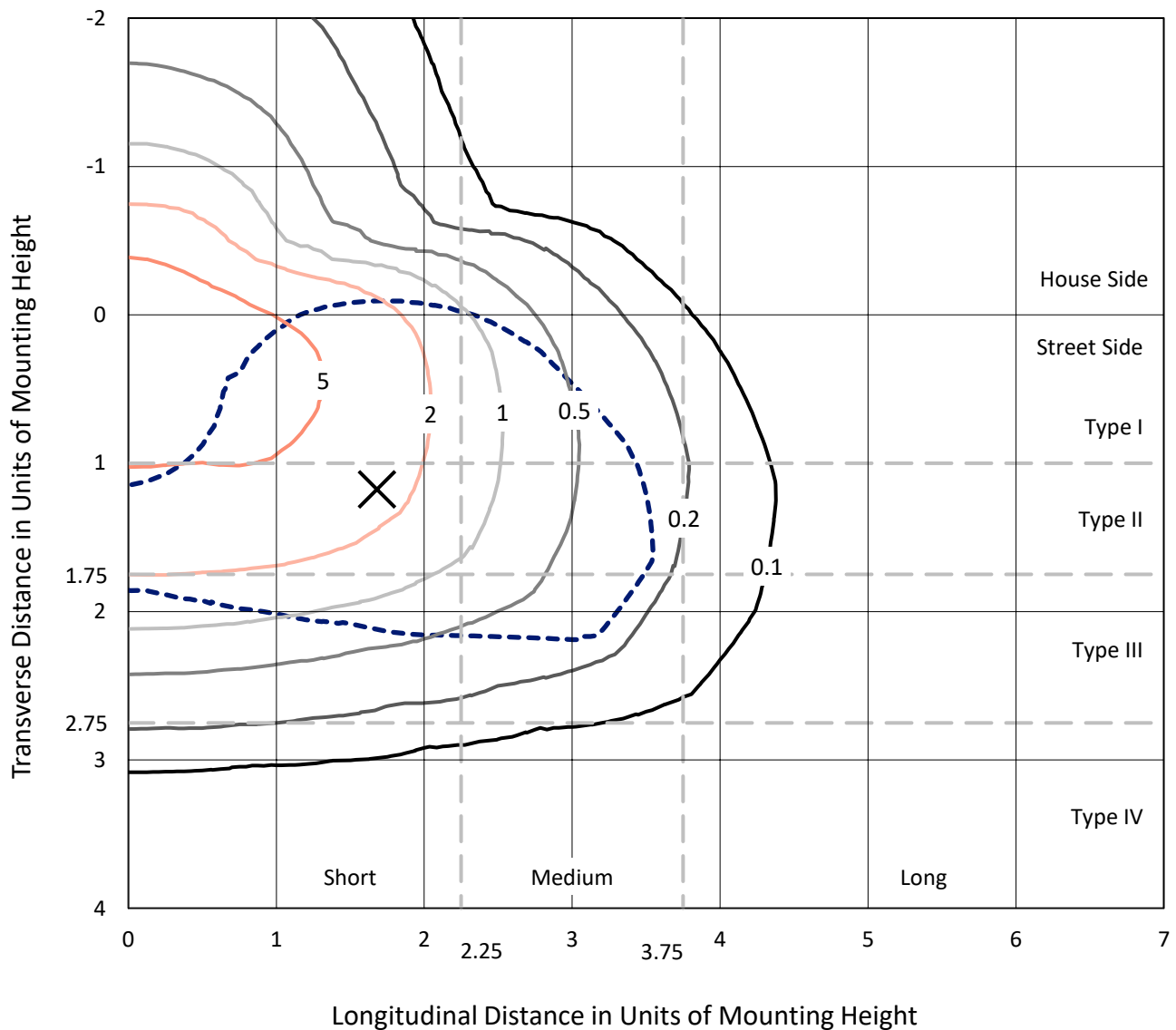


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



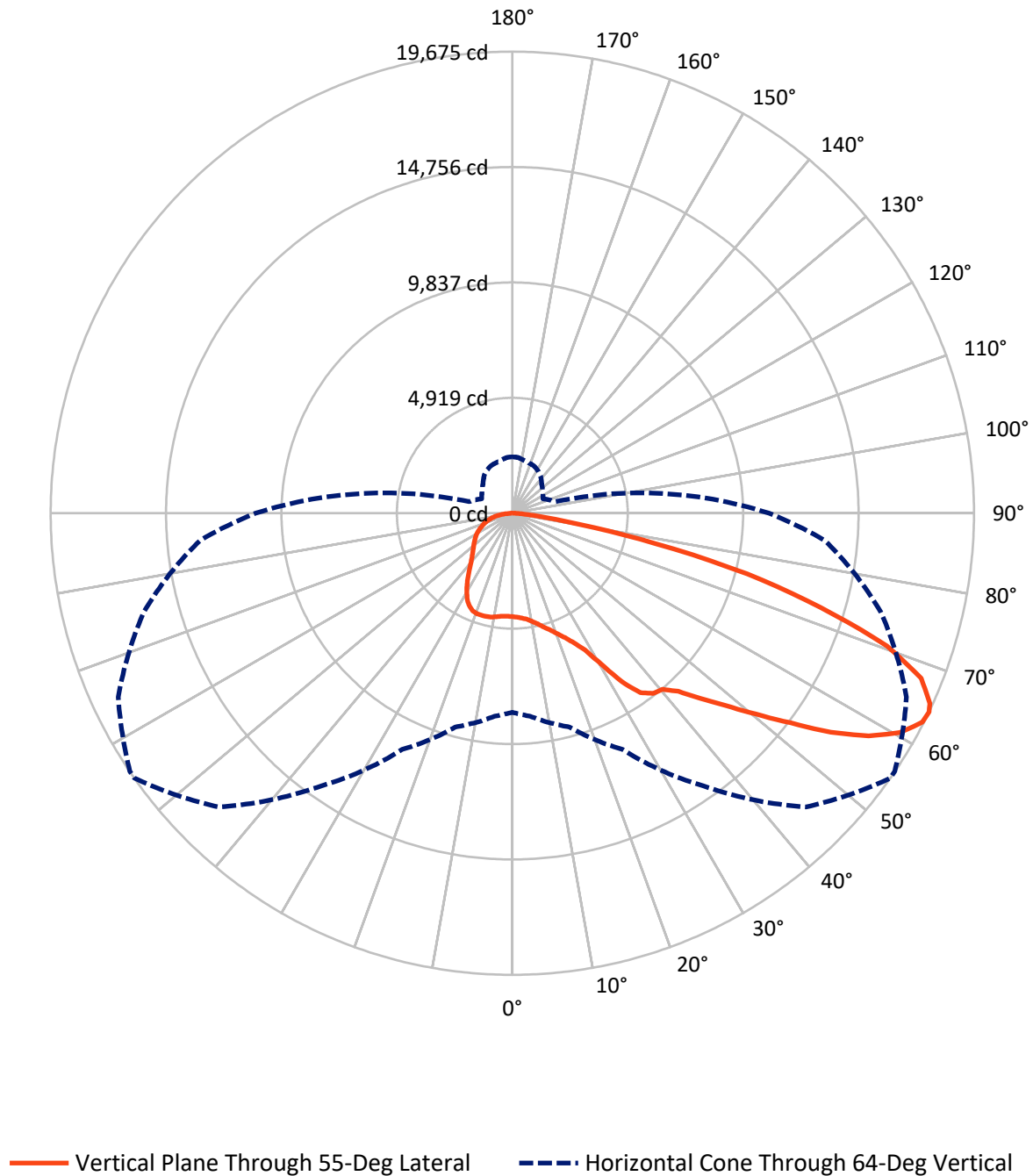
Based on 25 foot mounting height. Maximum calculated value = 8.1 fc

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	7980.4	0.0	7980.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	24871.6	0.0	24871.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	32852.0	0.0	32852.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.8	1.3
10°-20°	1352.9	4.1
20°-30°	2408.5	7.3
30°-40°	3705.6	11.3
40°-50°	5253.0	16.0
50°-60°	7603.7	23.1
60°-70°	7869.0	24.0
70°-80°	3685.1	11.2
80°-90°	545.5	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°	32852.0	100.0
0°-180°	32852.0	100.0

Coefficient of Utilization



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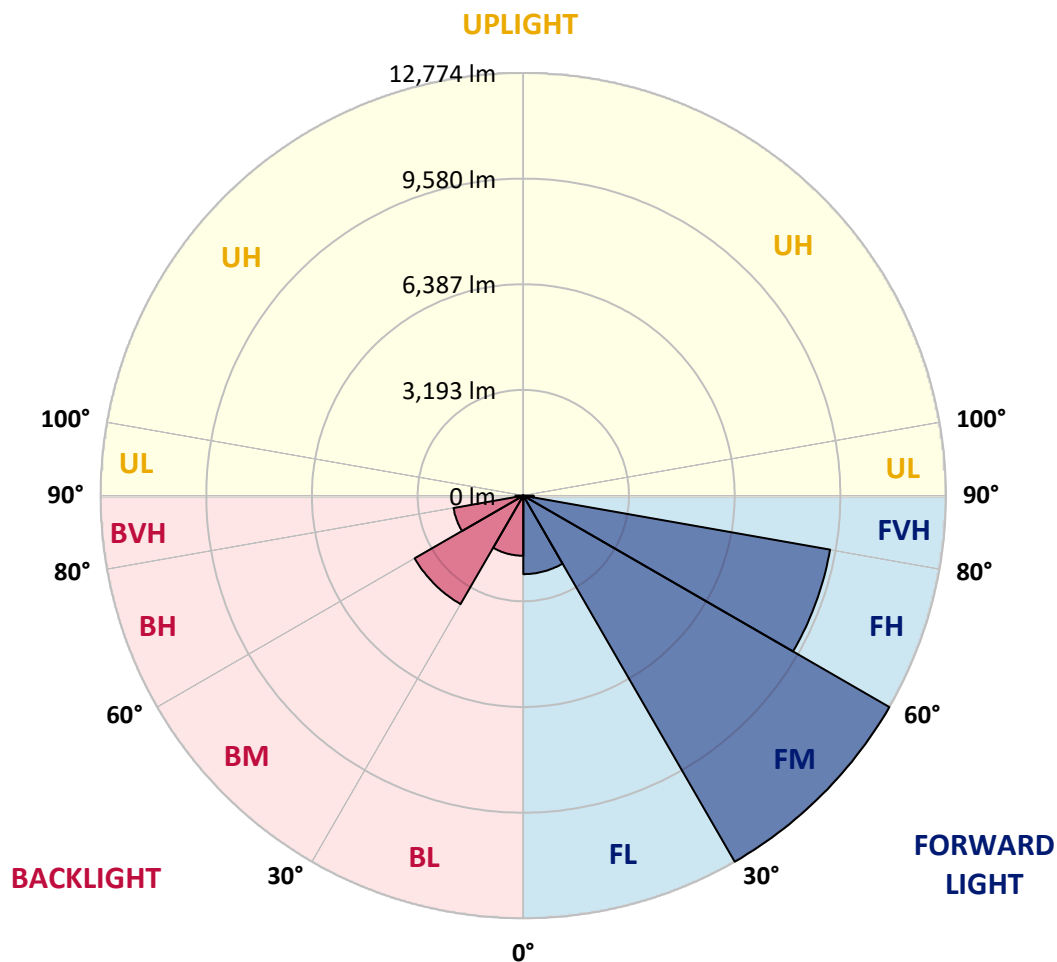
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2372.4	7.2			
FM	(30°-60°)	12773.8	38.9			
FH	(60°-80°)	9413.1	28.7			G4/12000
FVH	(80°-90°)	312.4	1.0			G3/500
BL	(0°-30°)	1817.6	5.5	B3/2500		
BM	(30°-60°)	3788.6	11.5	B3/5000		
BH	(60°-80°)	2141.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	233.2	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7
2.5°	4457.2	4455.4	4460.9	4455.4	4459.0	4446.2	4440.7	4444.4	4438.9	4429.7	4413.2
5°	4512.1	4510.3	4512.1	4504.8	4508.5	4501.1	4488.3	4492.0	4482.8	4462.7	4438.9
7.5°	4605.5	4598.2	4598.2	4596.4	4589.0	4578.1	4568.9	4565.2	4556.1	4530.4	4493.8
10°	4726.4	4726.4	4728.2	4713.6	4722.7	4702.6	4693.4	4691.6	4660.5	4627.5	4576.2
12.5°	4885.7	4894.9	4889.4	4882.0	4878.4	4871.0	4839.9	4847.2	4812.4	4755.7	4693.4
15°	5083.5	5098.1	5089.0	5085.3	5076.1	5048.7	5035.9	5030.4	4984.6	4902.2	4819.8
17.5°	5345.3	5327.0	5319.7	5310.5	5272.1	5251.9	5230.0	5226.3	5186.0	5089.0	4960.8
20°	5574.2	5599.9	5585.2	5576.1	5537.6	5499.2	5482.7	5477.2	5442.4	5336.2	5131.1
22.5°	5847.1	5852.6	5858.1	5836.1	5817.8	5788.5	5759.2	5750.0	5737.2	5627.3	5376.5
25°	6138.2	6160.2	6141.9	6119.9	6098.0	6096.1	6123.6	6119.9	6114.4	6008.2	5702.4
27.5°	6612.5	6632.7	6638.2	6614.4	6530.1	6537.5	6599.7	6619.9	6704.1	6528.3	6121.8
30°	6879.9	6900.0	6945.8	7035.5	7169.2	7286.4	7436.6	7482.4	7562.9	7231.5	6619.9
32.5°	7044.7	7052.0	7134.4	7301.1	7702.1	8139.8	8548.1	8564.6	8615.9	8150.8	7075.8
35°	7304.7	7310.2	7376.2	7559.3	8029.9	8758.7	9390.5	9410.6	9368.5	8436.4	7288.3
37.5°	7625.2	7639.9	7682.0	7834.0	8396.1	9277.0	9740.3	9725.6	9352.0	8663.5	7663.7
40°	8092.2	8092.2	8042.7	8247.8	8782.5	9573.6	9863.0	9837.3	9738.4	9320.9	8235.0
42.5°	8504.2	8496.9	8614.1	8753.2	9266.0	10031.4	10377.5	10419.6	10582.6	10146.8	8885.1
45°	9040.7	9073.7	9139.6	9392.3	10088.2	10813.4	11260.2	11300.5	11531.2	11119.2	9645.0
47.5°	9582.8	9593.8	9800.7	10137.6	11106.3	11873.6	12239.9	12305.8	12516.4	12256.4	10463.6
50°	9967.3	10071.7	10403.2	10934.2	12155.6	13166.5	13452.1	13530.9	13902.6	13494.3	11417.7
52.5°	10373.9	10476.4	10881.1	11690.5	13360.6	14488.6	14840.2	14893.3	15279.7	14746.8	12393.7
55°	10721.8	10817.0	11276.7	12360.7	14320.1	15838.2	16475.5	16413.2	16598.2	15711.9	13146.3
57.5°	10778.6	10855.5	11434.1	12789.2	15041.6	16995.6	17909.3	17946.0	17731.7	16433.4	13767.1
60°	10339.1	10496.6	11161.3	12743.5	15365.8	17801.3	18978.8	19004.4	18396.4	16803.3	14014.3
62.5°	9560.8	9544.3	10348.2	12007.3	14911.6	17984.4	19608.7	19581.2	18656.5	16625.6	13774.4
64°	8485.9	8683.6	9434.4	11102.7	14179.1	17702.4	19674.6	19660.0	18531.9	16255.7	13366.1
65°	7830.3	7819.3	8561.0	10362.9	13450.3	17277.6	19557.4	19537.3	18271.9	15924.3	13049.3
67.5°	5653.0	5678.6	6411.1	7996.9	10934.2	15616.6	18793.8	18718.7	17246.4	14825.6	11844.3
70°	3424.4	3439.0	4014.0	5305.0	7848.6	12624.4	16940.6	16944.3	15677.1	13184.8	10080.9
72.5°	1803.8	1842.2	2072.9	3012.4	4766.7	8857.6	13743.3	14069.3	13459.5	11252.8	7964.0
75°	1003.5	1009.0	1172.0	1485.1	2431.9	4957.1	10329.9	10423.3	10655.9	9057.2	5889.2
77.5°	765.5	776.4	827.7	959.6	1324.0	2298.2	6251.8	6720.6	7509.8	6385.5	3360.3
80°	620.8	631.8	675.7	754.5	880.8	1089.6	2904.3	3157.0	4019.5	2834.7	1311.2
82.5°	483.4	476.1	532.9	584.2	640.9	644.6	1192.1	1318.5	1637.1	1219.6	567.7
85°	358.9	358.9	404.7	393.7	413.9	377.2	525.6	580.5	655.6	518.2	263.7
87.5°	142.8	157.5	265.5	238.1	185.0	148.3	194.1	205.1	227.1	203.3	109.9
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°	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7	4407.7
2.5°	4415.1	4420.6	4407.7	4398.6	4394.9	4389.4	4383.9	4385.8	4393.1	4400.4	4398.6
5°	4437.0	4438.9	4416.9	4405.9	4398.6	4391.3	4391.3	4396.8	4411.4	4422.4	4422.4
7.5°	4492.0	4492.0	4460.9	4440.7	4429.7	4416.9	4413.2	4415.1	4426.1	4440.7	4442.5
10°	4578.1	4570.7	4530.4	4499.3	4479.2	4448.0	4420.6	4405.9	4411.4	4420.6	4420.6
12.5°	4682.4	4662.3	4611.0	4568.9	4519.5	4460.9	4404.1	4374.8	4373.0	4382.1	4378.4
15°	4794.1	4772.2	4700.7	4623.8	4537.8	4451.7	4383.9	4341.8	4308.9	4299.7	4319.8
17.5°	4924.2	4878.4	4779.5	4673.3	4545.1	4433.4	4327.2	4241.1	4182.5	4166.0	4171.5
20°	5081.6	5021.2	4887.5	4720.9	4539.6	4367.5	4202.7	4087.3	3992.1	3962.8	3966.4
22.5°	5299.6	5195.2	4999.2	4744.7	4493.8	4242.9	4014.0	3863.9	3748.5	3702.7	3730.2
25°	5546.8	5433.2	5105.4	4739.2	4374.8	4043.3	3790.6	3594.7	3490.3	3422.6	3437.2
27.5°	5887.4	5685.9	5219.0	4689.8	4204.5	3799.8	3506.8	3321.8	3226.6	3191.8	3208.3
30°	6323.2	6013.7	5341.7	4556.1	3935.3	3492.1	3221.1	3100.3	3043.5	2999.5	3014.2
32.5°	6638.2	6244.5	5369.1	4330.8	3644.1	3212.0	3027.0	2937.3	2875.0	2832.9	2842.1
35°	6863.4	6440.4	5356.3	4054.3	3340.1	2981.2	2873.2	2799.9	2699.2	2607.7	2591.2
37.5°	7165.6	6685.8	5262.9	3752.2	3039.8	2825.6	2748.7	2613.2	2468.5	2345.8	2340.3
40°	7628.9	6973.3	5063.3	3396.9	2783.5	2710.2	2616.8	2441.0	2285.4	2186.5	2179.2
42.5°	8106.8	7238.8	4792.3	3023.3	2572.9	2589.3	2475.8	2301.8	2206.6	2142.5	2135.2
45°	8691.0	7526.3	4499.3	2699.2	2417.2	2475.8	2353.1	2252.4	2195.6	2153.5	2142.5
47.5°	9322.7	7821.1	4169.7	2408.1	2285.4	2371.4	2301.8	2256.1	2224.9	2195.6	2182.8
50°	10004.0	8150.8	3860.2	2173.7	2166.3	2263.4	2296.4	2279.9	2261.6	2252.4	2241.4
52.5°	10751.1	8487.7	3600.2	2008.8	2062.0	2186.5	2298.2	2311.0	2311.0	2305.5	2298.2
55°	11256.5	8722.1	3336.5	1875.2	1955.7	2124.2	2294.5	2344.0	2362.3	2354.9	2347.6
57.5°	11630.1	8850.3	3005.0	1759.8	1866.0	2063.8	2274.4	2347.6	2365.9	2375.1	2371.4
60°	11707.0	8731.3	2571.0	1638.9	1769.0	1975.9	2201.1	2292.7	2316.5	2373.3	2378.8
62.5°	11360.9	8365.0	2138.9	1519.9	1649.9	1842.2	2102.2	2230.4	2278.0	2365.9	2375.1
64°	10936.0	7954.8	1899.0	1444.8	1573.0	1767.1	2052.8	2213.9	2276.2	2393.4	2400.7
65°	10624.7	7656.3	1748.8	1397.2	1523.6	1717.7	2025.3	2219.4	2292.7	2435.5	2446.5
67.5°	9478.4	6629.0	1446.7	1285.5	1406.4	1633.4	2030.8	2265.2	2289.0	2452.0	2450.2
70°	7843.1	5277.6	1212.3	1183.0	1292.8	1565.7	2008.8	2192.0	2193.8	2301.8	2276.2
72.5°	5872.7	3900.5	1051.1	1076.8	1166.5	1404.5	1897.1	2093.1	2062.0	2076.6	2051.0
75°	4034.2	2580.2	904.6	963.2	1034.6	1241.6	1739.7	1900.8	1851.4	1833.1	1814.7
77.5°	2153.5	1426.5	752.6	851.5	899.1	1073.1	1518.1	1673.7	1622.5	1551.0	1527.2
80°	871.7	672.1	606.1	705.0	732.5	864.3	1263.5	1360.6	1322.1	1197.6	1157.3
82.5°	437.7	402.9	476.1	554.9	556.7	617.1	939.4	1031.0	944.9	792.9	758.1
85°	228.9	236.2	327.8	390.0	344.3	333.3	564.0	624.4	573.2	498.1	448.6
87.5°	82.4	95.2	172.1	170.3	120.9	64.1	124.5	60.4	33.0	20.1	25.6
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)