

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: P458038

Luminaire Tested: **GALN-SA9B-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458038
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41225 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 364
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

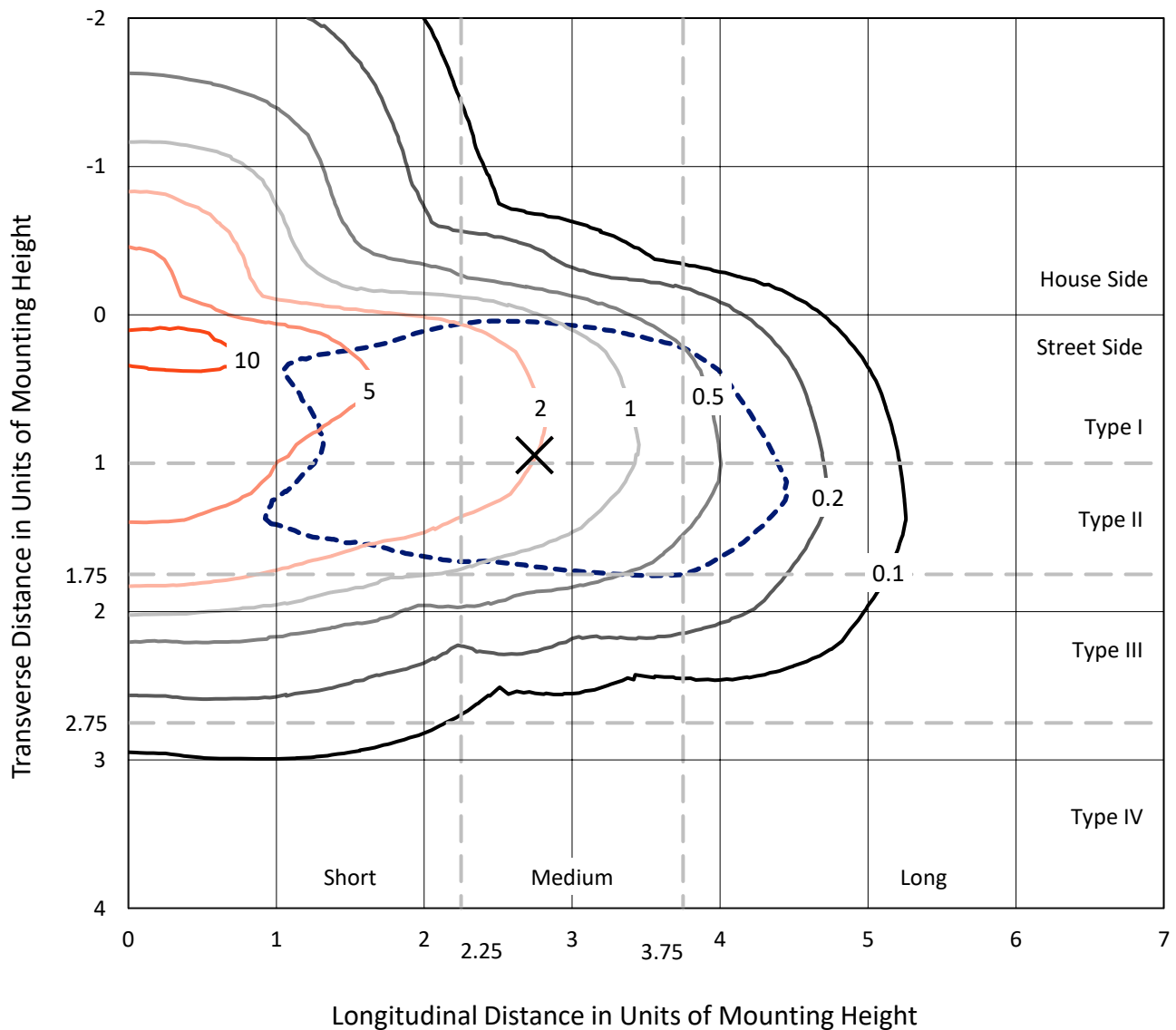


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

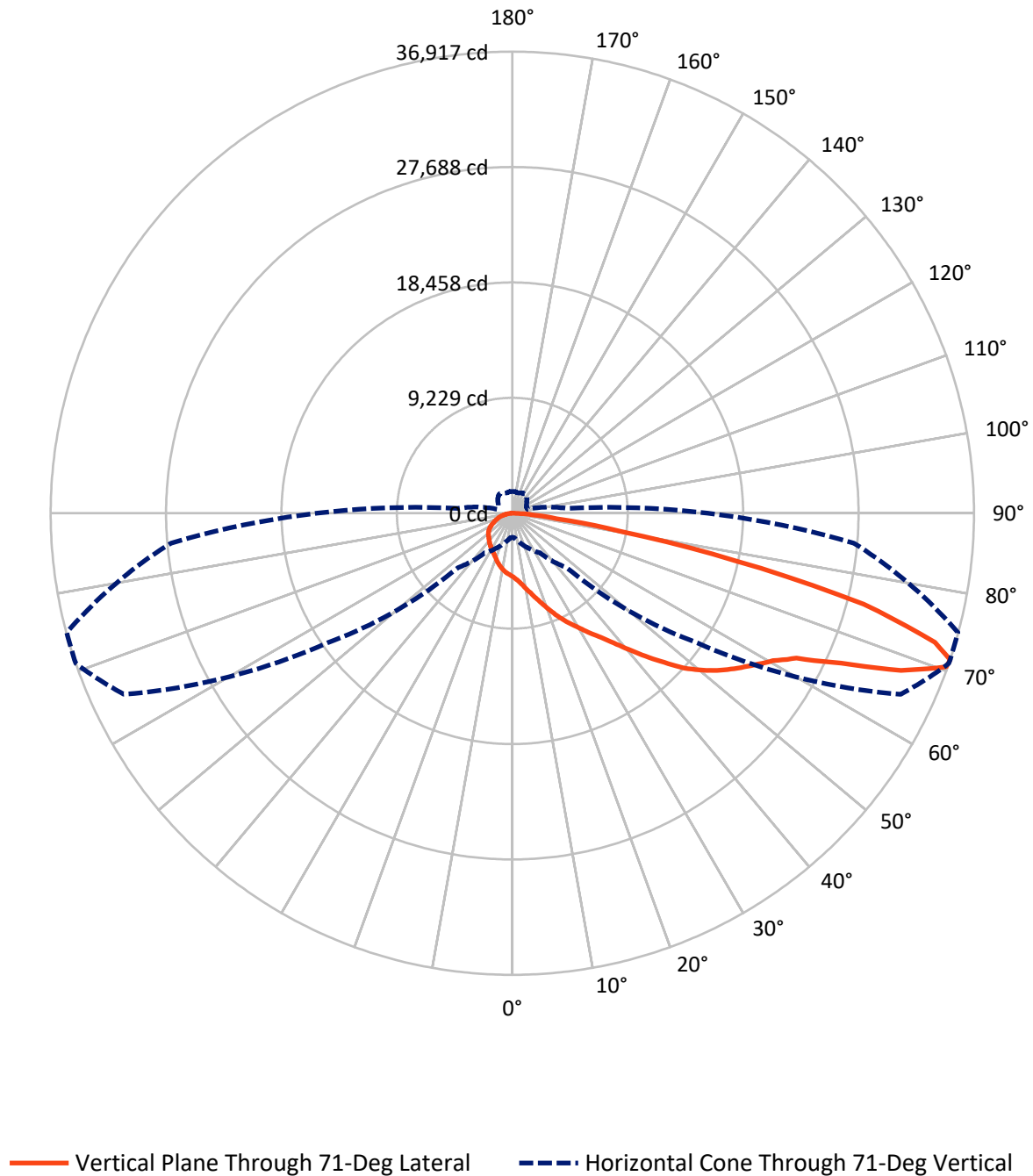


Based on 25 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7414.2	0.0	7414.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	33810.8	0.0	33810.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	41225.0	0.0	41225.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	508.0	1.2
10°-20°	1650.5	4.0
20°-30°	2884.4	7.0
30°-40°	4290.1	10.4
40°-50°	6321.0	15.3
50°-60°	8849.5	21.5
60°-70°	9897.8	24.0
70°-80°	6046.0	14.7
80°-90°	777.8	1.9
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°	41225.0	100.0
0°-180°	41225.0	100.0

Coefficient of Utilization



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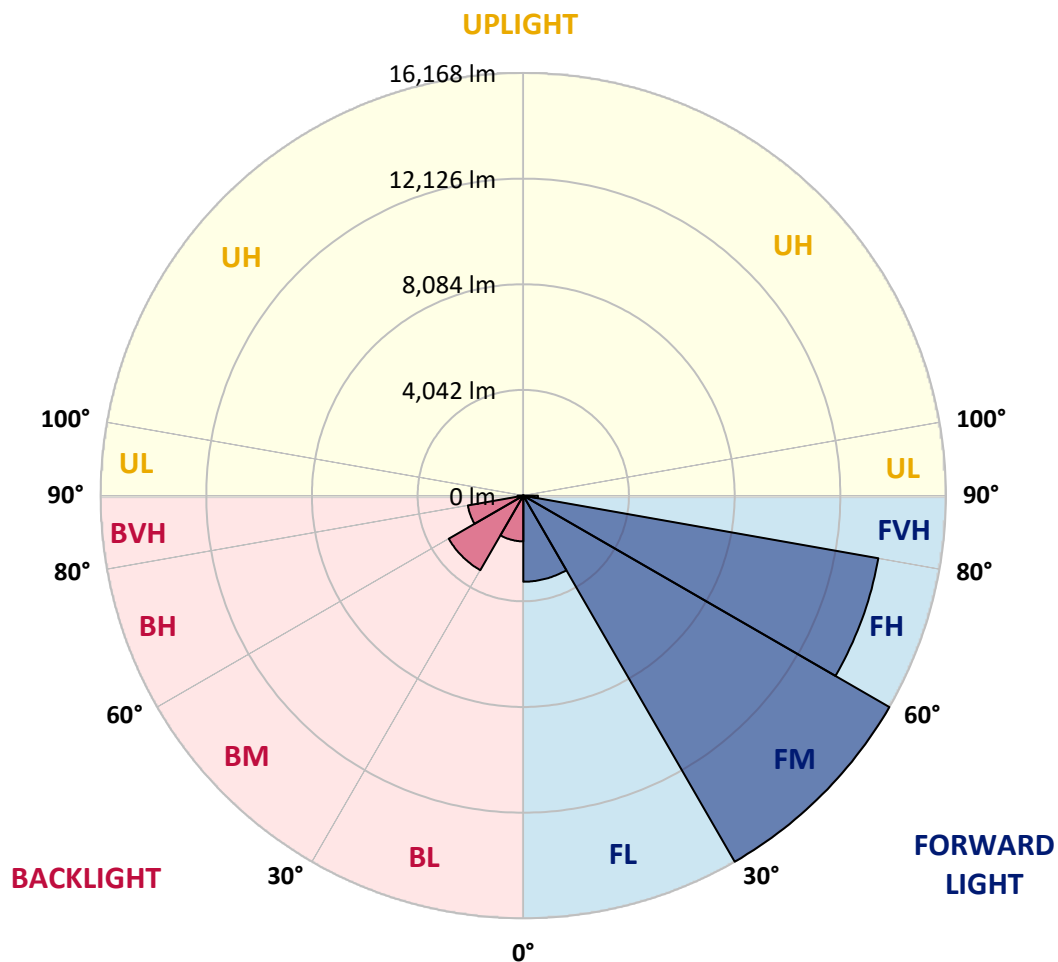
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3293.9	8.0			
FM	(30°-60°)	16167.6	39.2			
FH	(60°-80°)	13789.6	33.4			G5
FVH	(80°-90°)	559.6	1.4			G4/750
BL	(0°-30°)	1749.0	4.2	B3/2500		
BM	(30°-60°)	3292.9	8.0	B3/5000		
BH	(60°-80°)	2154.2	5.2	B3/2500		G3/2500
BVH	(80°-90°)	218.1	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6
2.5°	5616.9	5589.8	5592.0	5553.5	5503.7	5449.3	5372.2	5304.3	5249.9	5218.2	5125.3
5°	6224.2	6197.0	6163.0	6079.2	6042.9	5909.2	5739.3	5585.2	5467.4	5401.7	5215.9
7.5°	6715.9	6709.1	6700.0	6652.4	6559.5	6373.7	6228.7	5961.3	5786.9	5662.3	5345.0
10°	7019.5	7030.8	7037.6	7046.7	7008.2	6910.7	6711.3	6373.7	6151.7	5993.1	5512.7
12.5°	7173.6	7184.9	7223.4	7307.2	7359.4	7348.0	7184.9	6854.1	6548.2	6339.7	5691.7
15°	7268.7	7286.8	7354.8	7465.8	7640.3	7751.3	7672.0	7366.2	7030.8	6783.8	5904.7
17.5°	7372.9	7393.3	7468.1	7626.7	7855.6	8095.7	8181.8	7919.0	7554.2	7259.7	6142.6
20°	7431.9	7459.0	7565.5	7774.0	8041.4	8390.3	8675.8	8537.6	8138.8	7812.5	6416.8
22.5°	7527.0	7549.7	7640.3	7862.4	8181.8	8619.1	9169.7	9140.3	8789.1	8367.6	6718.1
25°	7785.3	7821.6	7866.9	8000.6	8308.7	8852.5	9579.8	9783.8	9419.0	8947.7	6994.6
27.5°	8272.5	8301.9	8299.7	8317.8	8492.3	9054.2	9935.6	10420.5	10044.3	9534.5	7261.9
30°	8827.6	8838.9	8848.0	8807.2	8845.7	9260.4	10261.9	11050.4	10674.2	10137.2	7495.3
32.5°	9502.8	9525.5	9448.4	9344.2	9312.5	9566.3	10531.5	11680.3	11419.7	10749.0	7726.4
35°	10300.4	10359.3	10202.9	10019.4	9890.3	10005.8	10894.0	12323.7	12183.3	11530.7	8032.3
37.5°	11211.2	11283.7	11138.7	10778.5	10594.9	10626.7	11367.6	13119.0	13148.5	12421.2	8487.7
40°	11956.7	12051.8	12056.4	11546.6	11267.9	11304.1	11968.0	13975.5	14313.1	13522.4	9024.7
42.5°	12448.4	12541.3	12638.7	12339.6	12047.3	12253.5	12668.1	14904.5	15622.8	14859.2	9774.7
45°	12987.6	13071.5	13125.8	12989.9	12826.8	13361.5	13513.3	15892.4	17018.5	16352.4	10594.9
47.5°	13613.0	13705.9	13758.0	13628.9	13567.7	14333.5	14424.2	16814.6	18509.4	17802.5	11501.3
50°	14446.8	14517.0	14489.9	14408.3	14394.7	15079.0	15298.8	17677.9	19739.7	19363.6	12441.6
52.5°	15484.6	15568.4	15597.8	15482.3	15430.2	15611.4	16003.4	18464.1	20859.1	20705.0	13445.3
55°	16112.2	16245.9	16694.5	16875.8	17000.4	16300.2	16762.5	19331.9	21862.8	22118.8	14523.8
57.5°	15307.8	15480.0	16483.8	17390.1	18561.5	18022.3	17838.7	20238.2	22866.6	23489.7	15815.4
60°	13345.6	13384.1	14677.9	16347.8	18704.3	20236.0	20084.1	21679.3	23954.2	24871.8	17517.0
62.5°	9258.1	9339.7	10869.1	13533.7	16941.5	21033.5	23904.3	24167.1	25513.0	26940.5	20011.6
65°	4774.1	4667.6	6061.0	8505.9	12772.4	19139.3	26999.4	28741.8	28893.6	30176.1	23523.6
67.5°	2938.8	2986.3	3638.9	4966.7	7551.9	13909.8	26675.4	34331.6	33531.7	34148.0	26784.1
70°	2206.9	2265.8	2714.4	3398.7	4604.1	7953.0	21452.7	35686.5	36803.6	36645.0	27776.6
71°	1919.1	1980.3	2447.1	3092.8	3867.7	6138.1	18074.4	34268.1	36916.9	36889.7	27402.7
72.5°	1635.9	1674.4	2039.2	2619.3	3260.5	4302.8	13579.0	30733.5	35342.1	36246.2	26068.2
75°	1284.7	1314.2	1477.3	1998.4	2567.2	2641.9	7286.8	23041.0	29027.3	30749.3	21701.9
77.5°	1046.8	1067.2	1151.0	1484.1	1980.3	1871.6	3822.4	14997.4	18185.4	19918.7	12783.7
80°	831.6	854.2	904.1	1006.0	1484.1	1334.6	1824.0	7599.5	8784.5	8766.4	5102.6
82.5°	645.8	652.6	711.5	738.7	1015.1	947.1	987.9	3217.5	3564.1	3681.9	1842.1
85°	407.8	428.2	629.9	566.5	607.2	555.1	487.1	1277.9	1574.7	1552.1	736.4
87.5°	124.6	131.4	213.0	240.2	269.6	242.4	179.0	376.1	460.0	498.5	183.5
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°	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6	5059.6
2.5°	5089.0	5064.1	4975.7	4903.2	4835.2	4760.5	4697.0	4678.9	4663.0	4656.2	4654.0
5°	5136.6	5061.8	4887.4	4744.6	4631.3	4527.1	4461.4	4431.9	4402.5	4402.5	4411.5
7.5°	5204.6	5068.6	4799.0	4586.0	4443.3	4345.8	4298.2	4293.7	4300.5	4307.3	4309.6
10°	5279.3	5064.1	4669.8	4404.7	4277.9	4232.5	4234.8	4273.3	4309.6	4336.8	4341.3
12.5°	5351.8	5036.9	4518.0	4234.8	4153.2	4162.3	4225.7	4311.8	4382.1	4420.6	4422.9
15°	5433.4	4993.8	4334.5	4073.9	4046.7	4117.0	4234.8	4366.2	4472.7	4536.2	4543.0
17.5°	5501.4	4921.3	4141.9	3917.6	3951.6	4080.7	4243.9	4413.8	4543.0	4622.3	4635.8
20°	5578.4	4828.4	3942.5	3768.0	3865.5	4039.9	4225.7	4409.3	4543.0	4620.0	4638.1
22.5°	5639.6	4697.0	3752.2	3645.7	3788.4	3990.1	4164.6	4311.8	4420.6	4461.4	4488.6
25°	5664.5	4531.6	3573.2	3546.0	3727.3	3908.5	4026.3	4110.2	4144.2	4139.6	4151.0
27.5°	5650.9	4341.3	3419.1	3466.7	3650.2	3781.6	3840.5	3833.8	3772.6	3715.9	3743.1
30°	5594.3	4114.7	3290.0	3385.1	3550.5	3623.0	3614.0	3525.6	3410.0	3303.6	3310.3
32.5°	5492.3	3870.0	3169.9	3292.2	3410.0	3441.8	3380.6	3265.0	3099.6	2961.4	2941.0
35°	5406.2	3636.6	3063.4	3185.7	3269.6	3253.7	3194.8	3045.2	2895.7	2773.4	2753.0
37.5°	5392.6	3437.2	2961.4	3065.6	3113.2	3090.6	3018.1	2891.2	2836.8	2743.9	2732.6
40°	5465.1	3296.8	2857.2	2938.8	2961.4	2943.3	2864.0	2791.5	2841.3	2818.7	2818.7
42.5°	5662.3	3222.0	2764.3	2811.9	2830.0	2843.6	2786.9	2725.8	2786.9	2682.7	2648.7
45°	5974.9	3224.2	2680.5	2687.3	2741.6	2789.2	2750.7	2660.1	2628.3	2419.9	2379.1
47.5°	6434.9	3301.3	2612.5	2569.4	2666.9	2746.2	2691.8	2560.4	2419.9	2281.7	2256.7
50°	6971.9	3439.5	2551.3	2447.1	2567.2	2691.8	2651.0	2496.9	2351.9	2268.1	2252.2
52.5°	7567.8	3614.0	2476.5	2311.1	2444.8	2666.9	2660.1	2487.9	2288.5	2231.8	2218.2
55°	8304.2	3786.2	2383.6	2152.5	2336.1	2646.5	2635.1	2413.1	2274.9	2234.1	2229.6
57.5°	9160.7	4035.4	2250.0	1991.6	2211.4	2562.6	2537.7	2367.8	2229.6	2200.1	2197.8
60°	10540.6	4422.9	2059.6	1844.4	2084.5	2415.4	2447.1	2290.7	2157.1	2150.3	2148.0
62.5°	12355.5	4966.7	1862.5	1692.6	1937.3	2225.0	2315.7	2186.5	2080.0	2114.0	2118.5
65°	14861.5	5424.4	1658.6	1563.4	1774.1	2041.5	2191.0	2089.1	1993.9	2059.6	2059.6
67.5°	16495.1	5433.4	1472.8	1429.7	1608.7	1887.4	2059.6	1973.5	1882.9	1993.9	1998.4
70°	16155.2	4760.5	1318.7	1289.2	1447.9	1722.0	1914.6	1846.6	1742.4	1842.1	1805.9
71°	15606.9	4386.6	1257.5	1234.9	1384.4	1642.7	1846.6	1790.0	1685.8	1751.5	1731.1
72.5°	14732.3	3808.8	1157.8	1162.4	1289.2	1543.0	1751.5	1692.6	1588.3	1624.6	1617.8
75°	12452.9	3326.2	990.2	1010.6	1108.0	1373.1	1561.1	1515.8	1409.3	1409.3	1402.5
77.5°	7785.3	2324.7	822.5	833.8	940.3	1176.0	1341.4	1302.8	1200.9	1166.9	1157.8
80°	2904.8	1200.9	643.5	657.1	722.8	926.7	1110.2	1074.0	969.8	931.2	895.0
82.5°	1098.9	602.7	473.6	462.2	532.5	706.9	870.1	827.0	745.5	652.6	625.4
85°	414.6	299.1	290.0	281.0	312.7	419.2	539.3	530.2	444.1	378.4	371.6
87.5°	108.8	97.4	113.3	83.8	88.4	79.3	81.6	34.0	15.9	6.8	4.5
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)