

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: P458272

Luminaire Tested: **GALN-SA9C-830-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51615 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 481
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

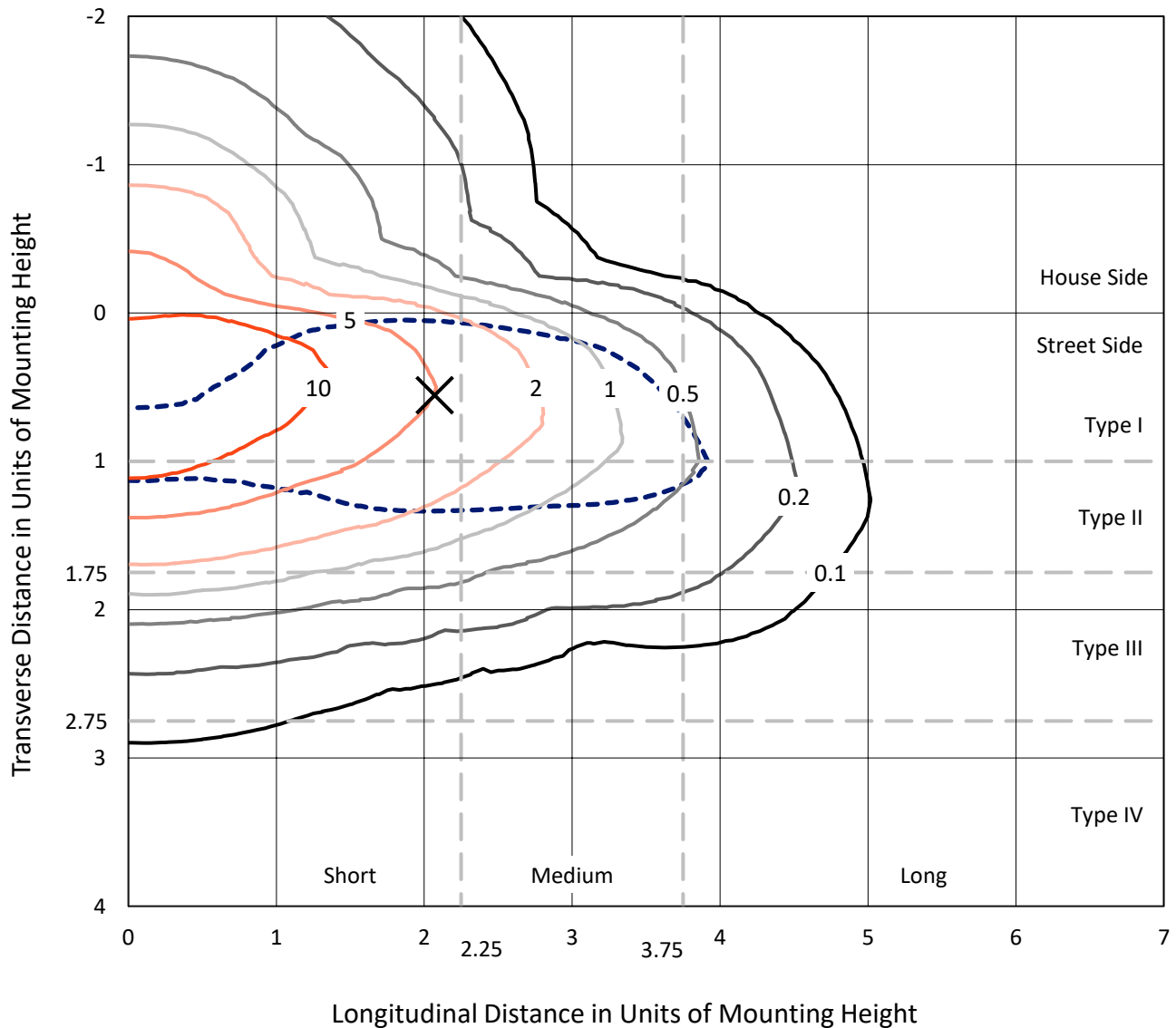


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

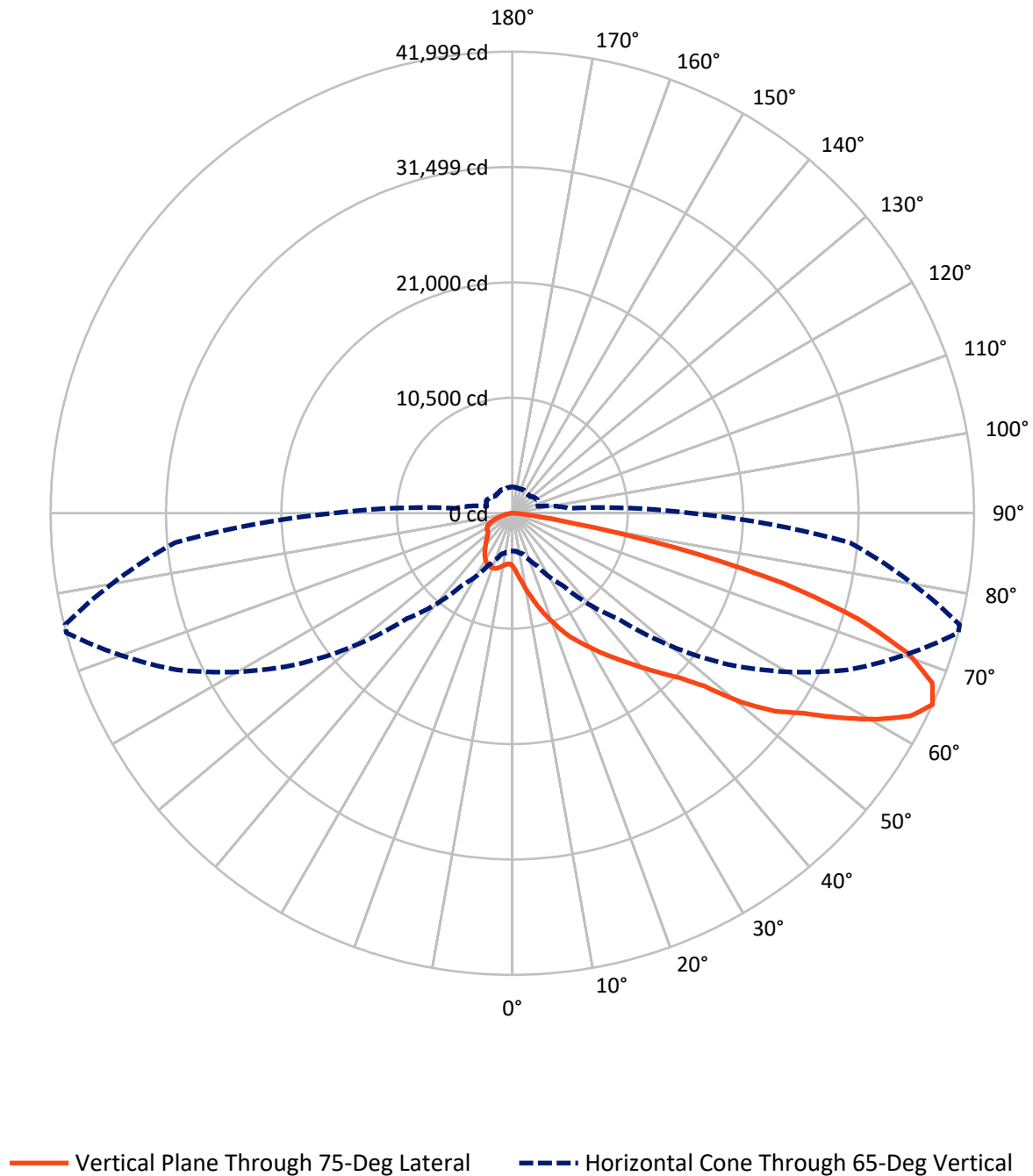


Based on 25 foot mounting height. Maximum calculated value = 19.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8677.2	0.0	8677.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	42937.9	0.0	42937.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	51615.0	0.0	51615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.7	1.1
10°-20°	2282.2	4.4
20°-30°	4408.4	8.5
30°-40°	7160.7	13.9
40°-50°	9850.1	19.1
50°-60°	11629.6	22.5
60°-70°	10189.5	19.7
70°-80°	4864.5	9.4
80°-90°	647.3	1.3
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°	51615.0	100.0
0°-180°	51615.0	100.0

Coefficient of Utilization



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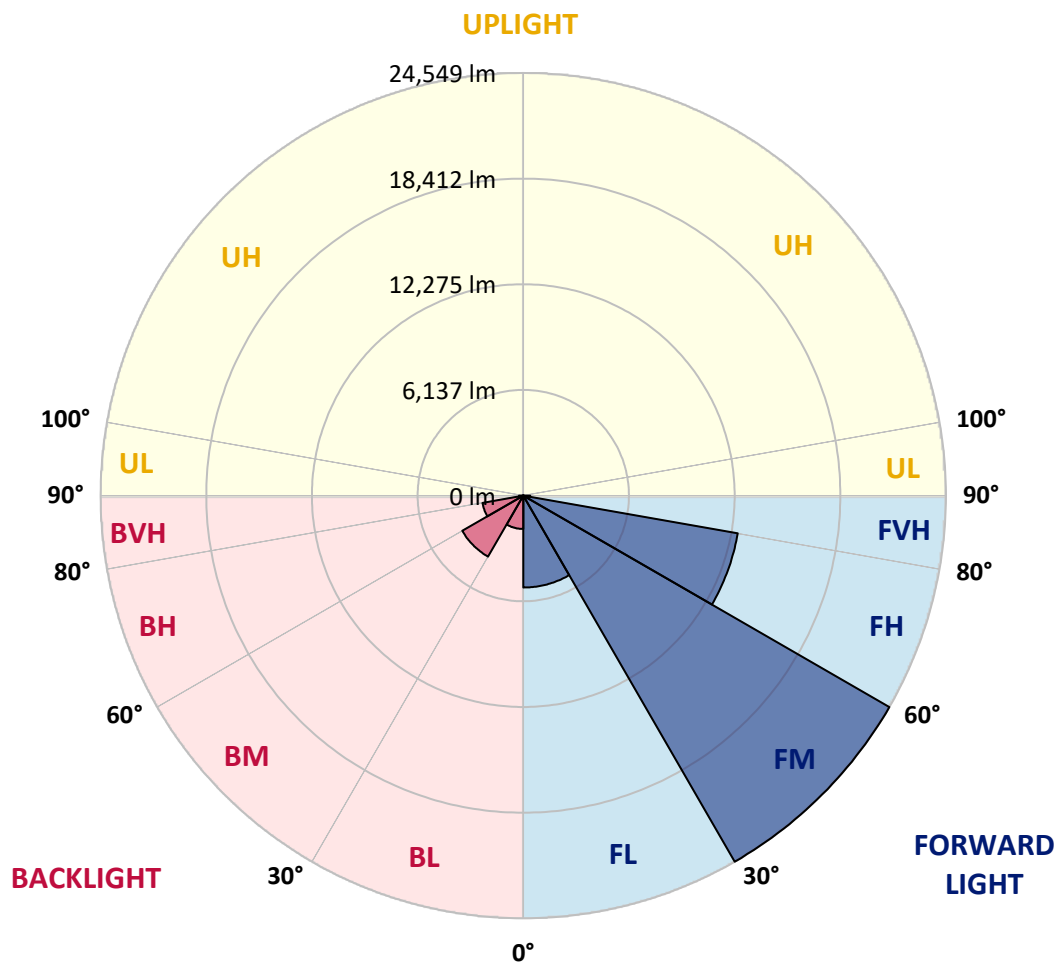
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5336.2	10.3			
FM	(30°-60°)	24549.2	47.6			
FH	(60°-80°)	12648.0	24.5			G5
FVH	(80°-90°)	404.5	0.8			G3/500
BL	(0°-30°)	1937.1	3.8	B3/2500		
BM	(30°-60°)	4091.2	7.9	B3/5000		
BH	(60°-80°)	2406.0	4.7	B3/2500		G3/2500
BVH	(80°-90°)	242.8	0.5			G3/500
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7
2.5°	6371.9	6329.9	6285.1	6161.9	6030.3	5881.9	5669.2	5464.8	5193.2	5184.8	4983.3
5°	8138.4	8110.4	7911.6	7796.8	7491.7	7085.7	6741.4	6206.7	5711.1	5652.4	5260.4
7.5°	9762.1	9653.0	9577.4	9370.2	9067.8	8547.1	7880.8	7158.5	6329.9	6251.5	5602.0
10°	10985.6	10974.4	10935.2	10756.0	10529.2	10011.3	9272.2	8236.4	7113.7	6959.8	6016.3
12.5°	11901.0	11909.4	11903.8	11901.0	11738.7	11299.1	10498.4	9406.6	7906.0	7796.8	6495.0
15°	12502.9	12586.9	12620.5	12760.5	12774.5	12480.5	11791.8	10537.6	8799.1	8636.7	7010.2
17.5°	12900.5	12942.5	13099.2	13337.2	13530.4	13477.2	12864.1	11584.7	9711.8	9440.2	7544.9
20°	13281.2	13354.0	13474.4	13799.1	14140.7	14297.5	13866.3	12656.9	10616.0	10442.4	8135.6
22.5°	14073.5	14177.1	14219.1	14384.3	14675.4	14952.6	14756.6	13684.4	11607.1	11371.9	8762.7
25°	15414.5	15523.7	15406.1	15366.9	15462.1	15599.3	15557.3	14653.0	12542.1	12206.2	9356.2
27.5°	17161.4	17175.4	16945.9	16727.5	16492.3	16422.4	16293.6	15512.5	13354.0	13074.1	9952.5
30°	19037.2	18970.0	18589.2	18194.5	17796.9	17405.0	17035.5	16341.2	14258.3	13936.3	10537.6
32.5°	20778.5	20742.1	20319.4	19706.3	19034.4	18664.8	17917.3	17178.2	15226.9	14916.2	11139.5
35°	22083.1	22136.3	21671.6	21002.5	20269.0	19941.4	18998.0	18057.3	16229.2	15890.4	11794.6
37.5°	23009.8	22981.8	22570.2	21990.7	21346.8	21061.3	20260.6	19017.6	17307.0	16982.3	12511.3
40°	23340.1	23323.3	23018.2	22595.4	22186.7	22085.9	21582.0	20053.4	18541.6	18160.9	13373.6
42.5°	23130.2	23166.5	22965.0	22850.2	22774.6	22847.4	22895.0	21411.2	19888.2	19538.3	14308.7
45°	22486.2	22466.7	22438.7	22626.2	23051.8	23530.5	24194.0	22693.4	21352.4	21072.5	15562.9
47.5°	21335.6	21475.6	21545.6	22063.5	22993.0	24126.8	25689.0	24412.4	23477.3	23233.7	17475.0
50°	19725.9	19837.8	20252.2	21173.2	22559.0	24350.8	27150.4	27223.1	27021.6	26565.2	19552.3
52.5°	17211.8	17385.4	18239.3	19927.4	21668.8	24258.4	28035.0	29633.6	29899.5	29558.0	21598.8
55°	14398.3	14641.8	15543.3	17757.8	20442.6	23754.5	28645.3	31030.6	32091.6	31775.3	23569.7
57.5°	11643.5	11901.0	12827.7	14972.2	18303.7	22640.2	29045.7	32587.1	35076.0	34664.4	26022.1
60°	8726.3	8995.1	9790.1	11999.0	15257.7	20462.2	28774.1	33936.5	38057.5	37881.2	28477.4
62.5°	5630.0	5926.7	6618.2	8446.3	11727.5	17486.2	27321.1	34681.2	40638.7	40426.0	30269.1
65°	3429.5	3463.1	3843.8	5243.6	8026.4	13538.8	23998.0	33693.0	41999.3	41935.0	30815.0
67.5°	2217.3	2270.5	2444.0	3141.1	4812.5	9403.8	19188.3	30431.5	41204.3	41181.9	29686.8
70°	1872.9	1889.7	1968.1	2119.3	2796.8	5702.8	13474.4	25232.6	38183.5	38183.5	26974.0
72.5°	1674.2	1696.5	1724.5	1772.1	1996.1	3230.7	8040.4	19641.9	32967.9	33186.3	22959.4
75°	1520.2	1514.6	1531.4	1539.8	1702.1	2110.9	4157.4	14527.0	25504.2	25067.5	16626.7
77.5°	1301.8	1310.2	1301.8	1338.2	1503.4	1607.0	2110.9	9748.1	15456.5	14891.0	8345.6
80°	1069.4	1083.4	1097.4	1119.8	1285.0	1220.6	1268.2	4442.9	5716.7	5596.4	2578.4
82.5°	803.5	823.1	845.5	898.7	1010.6	806.3	800.7	1898.1	2063.3	1889.7	949.1
85°	324.8	383.5	579.5	632.7	635.5	442.3	492.7	792.3	842.7	823.1	372.3
87.5°	75.6	89.6	187.6	282.8	260.4	165.2	182.0	257.6	294.0	271.6	126.0
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°	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7	4795.7
2.5°	4890.9	4792.9	4624.9	4496.1	4403.7	4322.6	4272.2	4241.4	4230.2	4227.4	4230.2
5°	5056.0	4882.5	4616.5	4448.5	4356.2	4303.0	4272.2	4269.4	4272.2	4275.0	4266.6
7.5°	5282.8	5033.6	4686.5	4529.7	4459.7	4420.5	4406.5	4400.9	4403.7	4400.9	4400.9
10°	5585.2	5243.6	4823.7	4661.3	4602.5	4557.7	4535.3	4521.3	4510.1	4498.9	4493.3
12.5°	5918.3	5476.0	4972.1	4815.3	4731.3	4661.3	4610.9	4574.5	4549.3	4524.1	4518.5
15°	6290.7	5722.3	5137.2	4918.9	4798.5	4694.9	4608.1	4549.3	4504.5	4468.1	4465.3
17.5°	6646.2	5954.7	5249.2	4966.5	4790.1	4644.5	4529.7	4448.5	4392.5	4345.0	4339.4
20°	7027.0	6175.9	5299.6	4935.7	4706.1	4529.7	4378.5	4280.6	4216.2	4163.0	4154.6
22.5°	7410.5	6363.5	5294.0	4837.7	4560.5	4353.4	4193.8	4090.2	4014.6	3961.4	3941.8
25°	7777.2	6514.6	5224.0	4680.9	4359.0	4143.4	3981.0	3885.8	3818.6	3754.2	3754.2
27.5°	8107.6	6604.2	5092.4	4490.5	4151.8	3925.0	3796.2	3709.4	3647.9	3605.9	3580.7
30°	8432.3	6646.2	4913.3	4249.8	3933.4	3740.2	3636.7	3586.3	3530.3	3482.7	3477.1
32.5°	8723.5	6637.8	4689.3	4014.6	3726.2	3589.1	3547.1	3507.9	3449.1	3381.9	3365.1
35°	9006.3	6581.8	4423.3	3757.0	3552.7	3499.5	3510.7	3454.7	3348.3	3264.3	3250.3
37.5°	9314.2	6481.0	4132.2	3547.1	3407.1	3457.5	3485.5	3362.3	3188.7	3057.1	3026.3
40°	9669.8	6366.3	3829.8	3337.1	3292.3	3418.3	3418.3	3191.5	2953.6	2872.4	2850.0
42.5°	10086.9	6271.1	3577.9	3160.7	3197.1	3323.1	3309.1	2964.8	2866.8	2824.8	2813.6
45°	10747.6	6237.5	3317.5	3006.8	3118.7	3211.1	3096.3	2886.4	2830.4	2796.8	2785.6
47.5°	11791.8	6276.7	3087.9	2892.0	3029.1	3099.1	2858.4	2833.2	2794.0	2746.4	2740.8
50°	12760.5	6240.3	2925.6	2827.6	2950.8	2964.8	2760.4	2768.8	2746.4	2693.2	2682.0
52.5°	13552.8	6125.5	2822.0	2794.0	2883.6	2729.6	2668.0	2698.8	2690.4	2623.2	2612.0
55°	14423.5	6055.5	2771.6	2794.0	2838.8	2525.2	2581.2	2626.0	2614.8	2567.2	2564.4
57.5°	15478.9	6069.5	2735.2	2802.4	2794.0	2421.6	2494.4	2547.6	2544.8	2530.8	2530.8
60°	16559.5	6075.1	2679.2	2799.6	2740.8	2340.5	2404.8	2480.4	2486.0	2494.4	2494.4
62.5°	16917.9	5831.5	2570.0	2749.2	2623.2	2262.1	2320.9	2424.4	2418.8	2441.2	2444.0
65°	16248.8	5156.8	2407.6	2634.4	2472.0	2206.1	2256.5	2351.6	2320.9	2379.6	2390.8
67.5°	14790.2	4266.6	2155.7	2427.2	2304.1	2147.3	2214.5	2250.9	2194.9	2309.7	2312.5
70°	12782.9	3331.5	1836.5	2133.3	2113.7	2085.7	2180.9	2124.9	2046.5	2186.5	2158.5
72.5°	10688.8	2544.8	1467.0	1744.1	1858.9	1993.3	2122.1	1962.5	1853.3	1895.3	1844.9
75°	8029.2	1881.3	1178.6	1366.2	1548.2	1861.7	2068.9	1766.5	1598.6	1559.4	1548.2
77.5°	4093.0	1229.0	881.9	1021.8	1161.8	1682.5	1996.1	1537.0	1324.2	1262.6	1234.6
80°	1461.4	764.3	621.5	705.5	783.9	1447.4	1744.1	1271.0	1027.4	1016.2	1027.4
82.5°	677.5	492.7	417.1	461.9	464.7	965.9	1329.8	949.1	781.1	1187.0	1002.3
85°	291.2	246.4	235.2	229.6	212.8	431.1	747.5	509.5	795.1	355.5	327.6
87.5°	86.8	98.0	86.8	64.4	47.6	47.6	75.6	28.0	19.6	14.0	14.0
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)