

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: P531724

Luminaire Tested: **GALN-SA7A-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531724
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24888 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

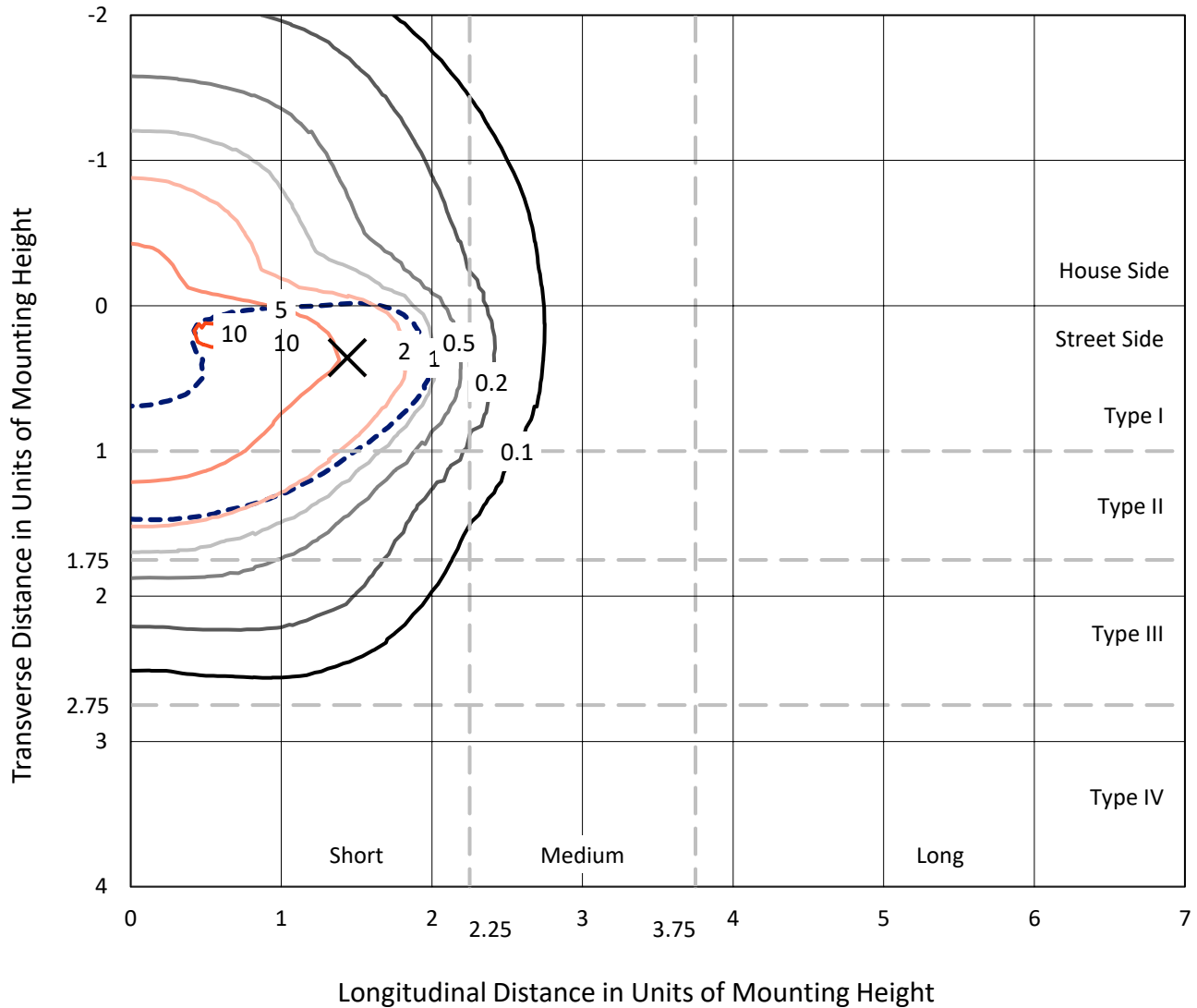
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

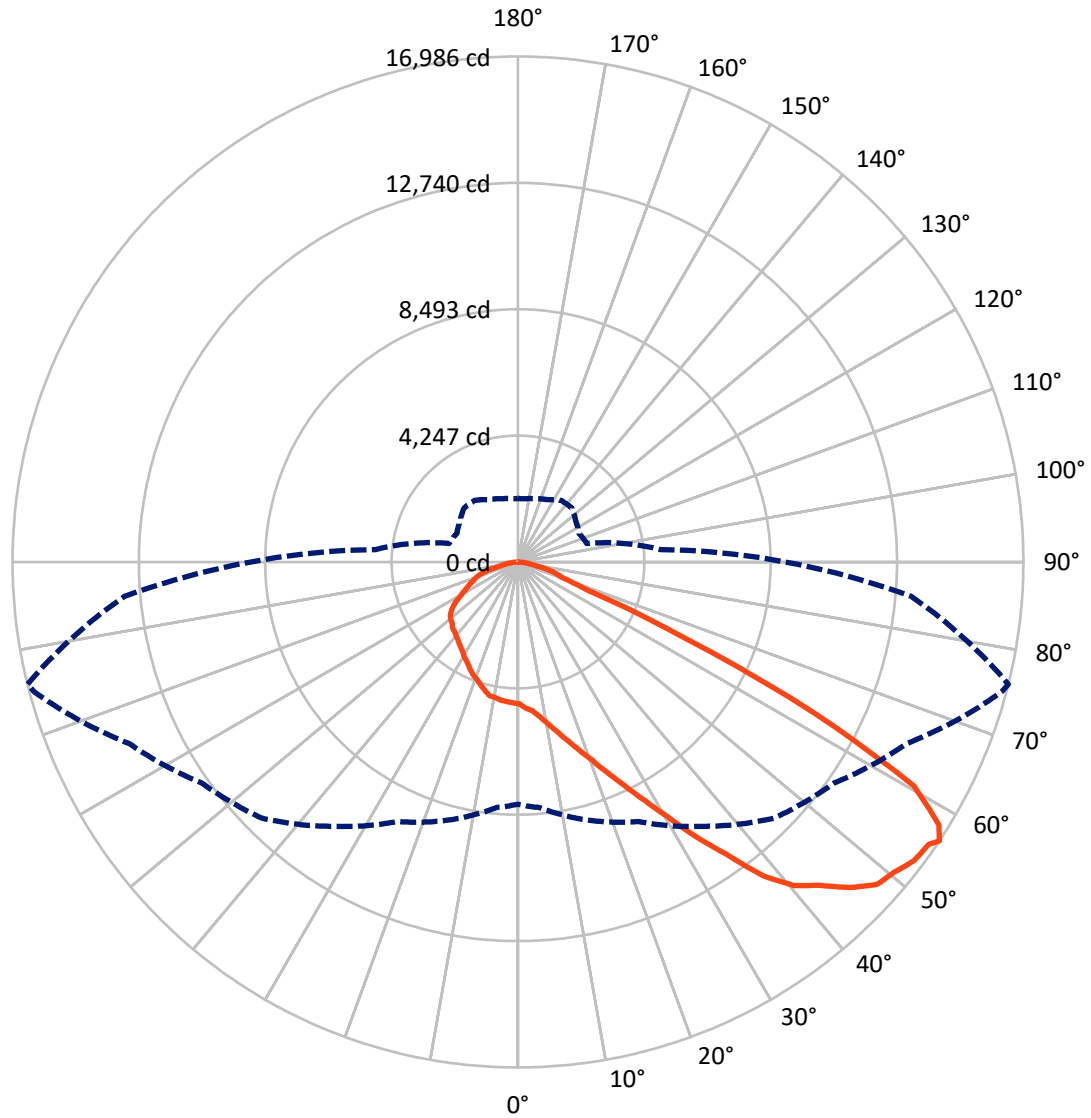
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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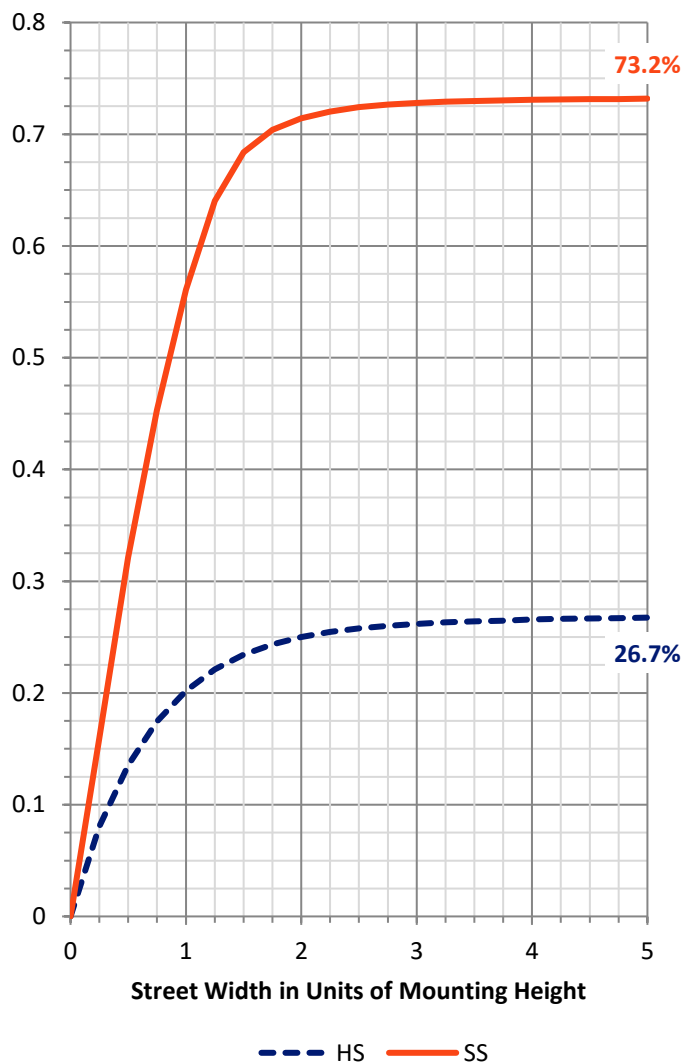
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6691.6	0.0	6691.6
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18196.4	0.0	18196.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	24888.0	0.0	24888.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	472.2	1.9
10°-20°	1483.5	6.0
20°-30°	2594.4	10.4
30°-40°	4062.1	16.3
40°-50°	5909.2	23.7
50°-60°	6494.6	26.1
60°-70°	2898.9	11.6
70°-80°	837.3	3.4
80°-90°	135.8	0.5
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°	24888.0	100.0
0°-180°	24888.0	100.0

Coefficient of Utilization



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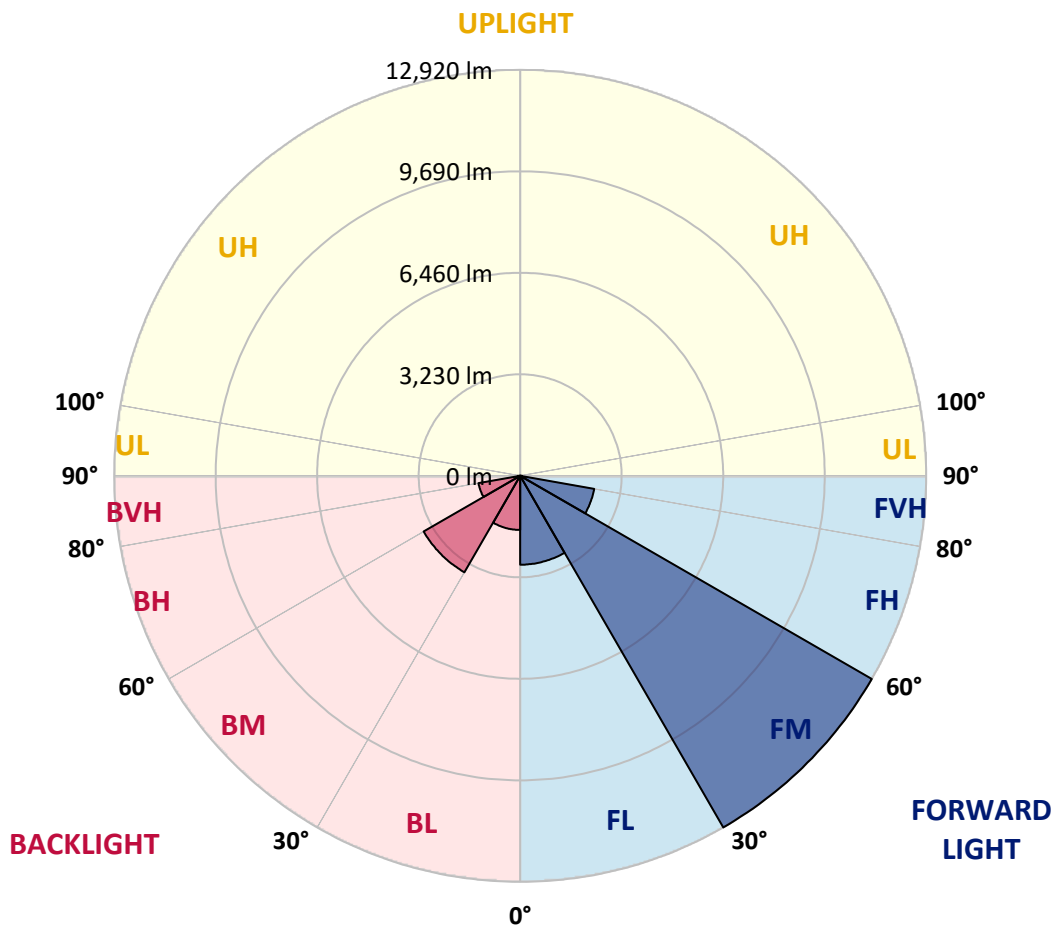
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2828.2	11.4			
FM (30°-60°)	12919.8	51.9			
FH (60°-80°)	2389.8	9.6			G2/5000
FVH (80°-90°)	58.5	0.2			G1/100
BL (0°-30°)	1721.9	6.9	B3/2500		
BM (30°-60°)	3546.0	14.2	B3/5000		
BH (60°-80°)	1346.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	77.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0
2.5°	5245.9	5162.1	5155.6	5133.0	5145.9	5087.9	5026.6	4945.9	4862.0	4913.6	4791.0
5°	5613.7	5500.8	5546.0	5468.6	5478.2	5400.8	5275.0	5181.4	5078.2	5016.9	4929.8
7.5°	5742.8	5752.5	5784.7	5771.8	5707.3	5707.3	5623.4	5458.9	5278.2	5242.7	5097.5
10°	5917.0	5920.2	5884.7	5894.4	5984.8	5942.8	5868.6	5797.6	5565.3	5523.4	5265.3
12.5°	5978.3	5920.2	5978.3	6029.9	6136.4	6194.5	6178.3	6126.7	5878.3	5849.3	5471.8
15°	5988.0	5952.5	6000.9	6117.0	6210.6	6455.8	6578.4	6542.9	6213.8	6217.1	5704.1
17.5°	5942.8	5991.2	6010.6	6110.6	6326.7	6555.8	6910.7	6959.1	6688.1	6646.2	5997.7
20°	6004.1	5968.6	5994.4	6084.8	6371.9	6730.0	7194.6	7514.0	7133.3	7104.3	6300.9
22.5°	6239.6	6191.2	6184.8	6242.9	6449.3	6820.4	7494.7	8068.9	7675.3	7691.5	6678.4
25°	6423.5	6449.3	6426.8	6423.5	6552.6	6955.9	7891.5	8730.3	8410.9	8317.4	7123.6
27.5°	6739.7	6801.0	6755.8	6817.1	6788.1	7159.1	8175.4	9462.7	9204.6	9078.8	7526.9
30°	7178.5	7210.8	7168.8	7168.8	7081.7	7443.0	8433.5	10227.3	10120.9	9949.9	8001.2
32.5°	7756.0	7804.4	7720.5	7672.1	7659.2	7865.7	8898.1	10982.3	11163.0	11017.8	8630.3
35°	8520.6	8491.6	8391.6	8346.4	8172.2	8514.2	9588.5	11850.2	12324.4	12066.3	9391.7
37.5°	9194.9	9149.7	9143.3	8891.6	8933.6	9214.3	10175.7	12508.3	13450.4	13376.2	10195.1
40°	9824.0	9866.0	9933.7	9791.8	9727.3	10037.0	10859.7	13011.6	14324.7	14295.7	10814.5
42.5°	10498.3	10459.6	10579.0	10459.6	10362.8	10801.6	11601.7	13360.1	15092.6	14853.8	11463.0
45°	11475.9	11353.3	11395.2	11404.9	11333.9	11495.3	11908.2	13611.7	15631.4	15605.5	11937.3
47.5°	12292.2	12295.4	12224.4	12169.6	11953.4	12114.7	12250.2	13769.8	16250.8	16208.9	12121.2
50°	12595.4	12553.5	12760.0	12879.3	12892.2	12563.2	12518.0	13856.9	16576.7	16392.8	12305.1
52.5°	11504.9	11543.7	11869.5	12579.3	12989.0	13024.5	12830.9	14037.6	16708.9	16670.2	12453.5
55°	9259.4	9446.6	9982.1	10801.6	11772.7	12840.6	13169.7	14224.7	16779.9	16747.7	13111.6
56°	8139.9	8285.1	8982.0	9624.0	10843.5	12172.8	12956.8	14424.7	16834.8	16986.4	13266.5
57.5°	6552.6	6720.4	7220.4	7949.6	9388.5	10901.6	12369.6	14179.5	16621.8	16679.9	13379.4
60°	4097.4	4113.5	4713.6	5194.3	6207.4	7685.0	9440.1	12337.3	15382.9	15299.1	12017.9
62.5°	2687.5	2690.7	3236.0	3629.6	4090.9	4429.7	5555.7	8181.9	11350.1	11201.7	8556.1
65°	1887.4	1929.3	2352.0	2877.8	3065.0	2887.5	2852.0	4313.5	6339.7	6126.7	4597.5
67.5°	1380.9	1384.1	1758.3	2322.9	2593.9	2197.1	1784.1	2106.8	2510.1	2503.6	2129.3
70°	913.0	951.8	1238.9	1735.7	2045.5	1764.8	1458.3	1506.7	1597.0	1597.0	1584.1
72.5°	532.3	567.8	758.2	1100.2	1148.6	1103.4	1155.0	1290.5	1348.6	1345.4	1329.2
75°	303.3	319.4	361.3	458.1	571.1	674.3	848.5	977.6	1035.6	1071.1	1029.2
77.5°	177.4	187.1	212.9	261.3	296.8	364.6	461.4	551.7	629.1	619.4	625.9
80°	93.6	93.6	119.4	154.9	206.5	258.1	306.5	358.1	400.1	409.7	419.4
82.5°	54.8	58.1	77.4	112.9	148.4	183.9	235.5	271.0	309.7	312.9	319.4
85°	29.0	32.3	48.4	74.2	100.0	112.9	116.1	109.7	119.4	112.9	129.1
87.5°	9.7	9.7	16.1	12.9	12.9	16.1	19.4	19.4	25.8	25.8	25.8
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°	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0	4762.0
2.5°	4787.8	4787.8	4733.0	4629.7	4613.6	4571.6	4532.9	4529.7	4500.7	4474.9	4462.0
5°	4878.1	4778.1	4697.5	4603.9	4494.2	4442.6	4384.5	4320.0	4294.2	4320.0	4316.8
7.5°	4981.4	4897.5	4655.5	4481.3	4355.5	4303.9	4239.3	4171.6	4178.0	4178.0	4132.9
10°	5081.4	4968.5	4581.3	4358.7	4174.8	4136.1	4100.6	4126.4	4158.7	4165.1	4136.1
12.5°	5249.2	4994.3	4545.8	4236.1	4120.0	4036.1	4058.7	4129.6	4197.4	4178.0	4200.6
15°	5375.0	5016.9	4384.5	4110.3	3965.1	4003.8	4084.5	4132.9	4245.8	4232.9	4255.5
17.5°	5497.6	5029.8	4226.4	3942.5	3881.2	3987.7	4049.0	4187.7	4223.2	4300.6	4329.7
20°	5749.2	5055.6	4065.1	3839.3	3819.9	3942.5	4049.0	4113.5	4190.9	4258.7	4258.7
22.5°	5878.3	5042.7	3958.7	3703.8	3765.1	3842.5	3939.3	4049.0	4049.0	4113.5	4116.7
25°	6039.6	4991.1	3790.9	3639.3	3684.4	3758.6	3868.3	3829.6	3871.5	3871.5	3923.2
27.5°	6223.5	4881.4	3645.7	3523.1	3613.4	3694.1	3710.2	3684.4	3636.0	3629.6	3610.2
30°	6371.9	4745.9	3539.2	3484.4	3558.6	3603.8	3552.1	3497.3	3413.4	3407.0	3361.8
32.5°	6575.2	4578.1	3407.0	3387.6	3471.5	3474.7	3458.6	3374.7	3252.1	3200.5	3148.9
35°	6917.2	4481.3	3306.9	3336.0	3361.8	3352.1	3323.1	3232.7	3110.1	3087.6	3068.2
37.5°	7168.8	4410.3	3203.7	3239.2	3261.8	3274.7	3187.6	3087.6	3090.8	3045.6	3032.7
40°	7452.7	4365.2	3119.8	3136.0	3139.2	3181.1	3074.7	3026.3	3048.8	3019.8	3039.2
42.5°	7817.3	4378.1	3032.7	3019.8	3081.1	3065.0	3013.4	2948.8	2961.7	2874.6	2887.5
45°	8010.9	4465.2	2981.1	2923.0	2990.8	2987.5	2919.8	2858.5	2781.1	2613.3	2619.7
47.5°	8139.9	4487.8	2858.5	2819.8	2890.8	2932.7	2855.3	2713.3	2603.6	2484.2	2455.2
50°	8272.2	4529.7	2800.4	2719.8	2748.8	2848.8	2752.0	2616.5	2510.1	2403.6	2419.7
52.5°	8388.3	4610.4	2687.5	2568.1	2619.7	2729.4	2677.8	2513.3	2397.1	2310.0	2284.2
55°	8904.6	4791.0	2497.1	2342.3	2464.9	2603.6	2574.6	2374.5	2248.7	2203.6	2197.1
56°	8985.2	4797.5	2397.1	2264.9	2377.8	2561.7	2526.2	2313.2	2200.3	2129.3	2132.6
57.5°	8998.1	4720.1	2255.2	2193.9	2290.7	2500.4	2455.2	2264.9	2110.0	2045.5	2026.1
60°	7917.3	3684.4	2077.7	2039.0	2151.9	2313.2	2297.1	2132.6	1958.4	1884.2	1919.6
62.5°	5397.6	2700.4	1939.0	1932.5	1990.6	2148.7	2106.8	1958.4	1813.2	1764.8	1742.2
65°	3142.4	2048.7	1803.5	1777.7	1826.1	1910.0	1939.0	1784.1	1632.5	1600.2	1590.6
67.5°	1855.1	1693.8	1629.3	1587.3	1571.2	1622.8	1645.4	1555.1	1403.4	1358.3	1397.0
70°	1551.8	1506.7	1509.9	1438.9	1400.2	1364.7	1345.4	1264.7	1138.9	1080.8	1064.7
72.5°	1338.9	1319.6	1306.6	1242.1	1206.6	1126.0	1042.1	961.4	867.9	819.5	822.7
75°	1022.7	1016.3	1022.7	990.5	929.2	864.6	787.2	684.0	613.0	551.7	564.6
77.5°	609.8	629.1	638.8	625.9	600.1	542.0	493.6	425.9	358.1	309.7	303.3
80°	419.4	435.5	451.7	435.5	409.7	367.8	316.2	264.6	216.2	190.4	183.9
82.5°	319.4	335.5	345.2	329.1	296.8	251.7	216.2	180.7	142.0	116.1	109.7
85°	116.1	132.3	129.1	154.9	167.8	161.3	138.7	106.5	80.7	58.1	54.8
87.5°	32.3	29.0	32.3	32.3	32.3	29.0	25.8	25.8	25.8	16.1	12.9
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)