

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: P534013

Luminaire Tested: **GALN-SA9C-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35252 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

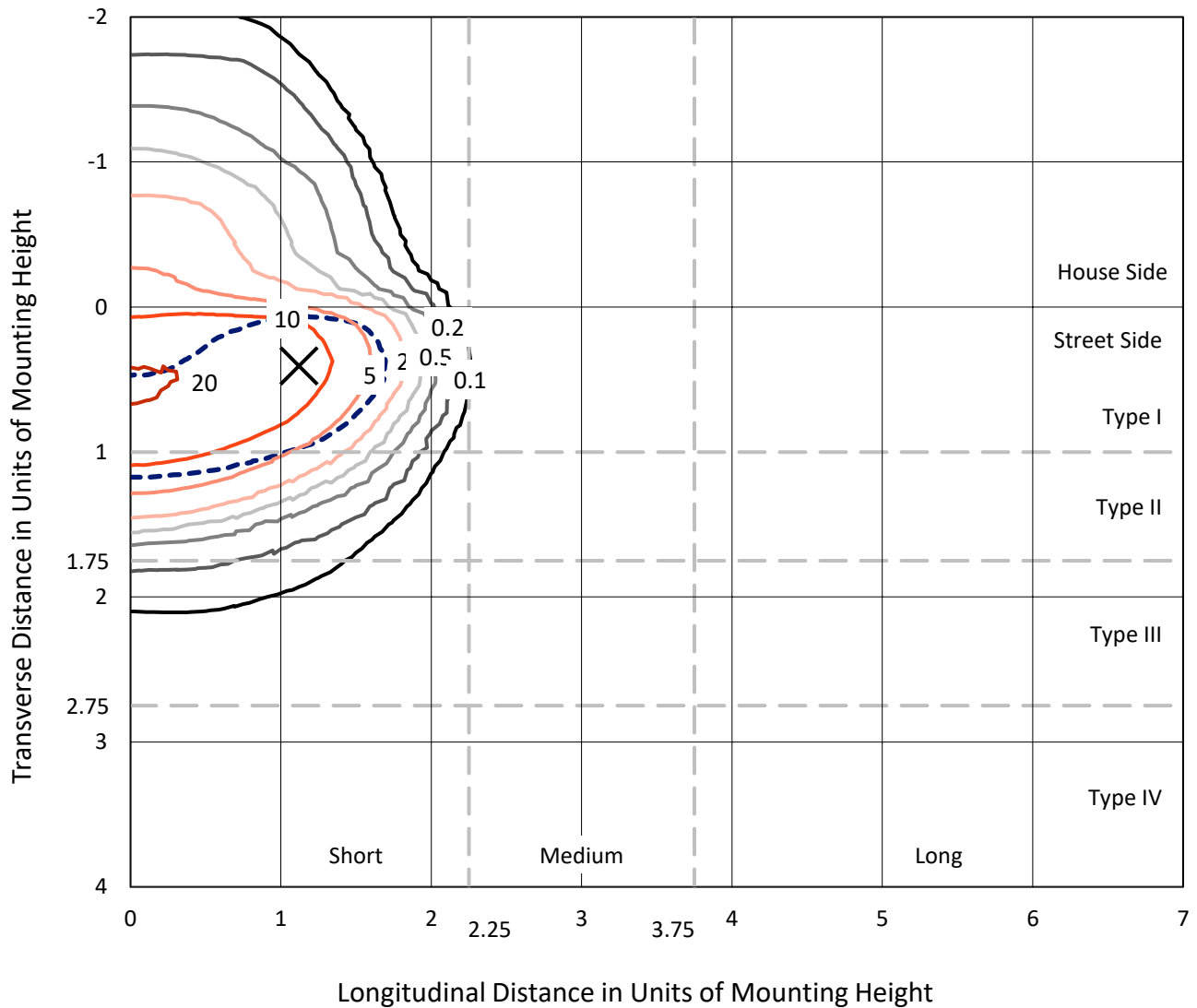
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

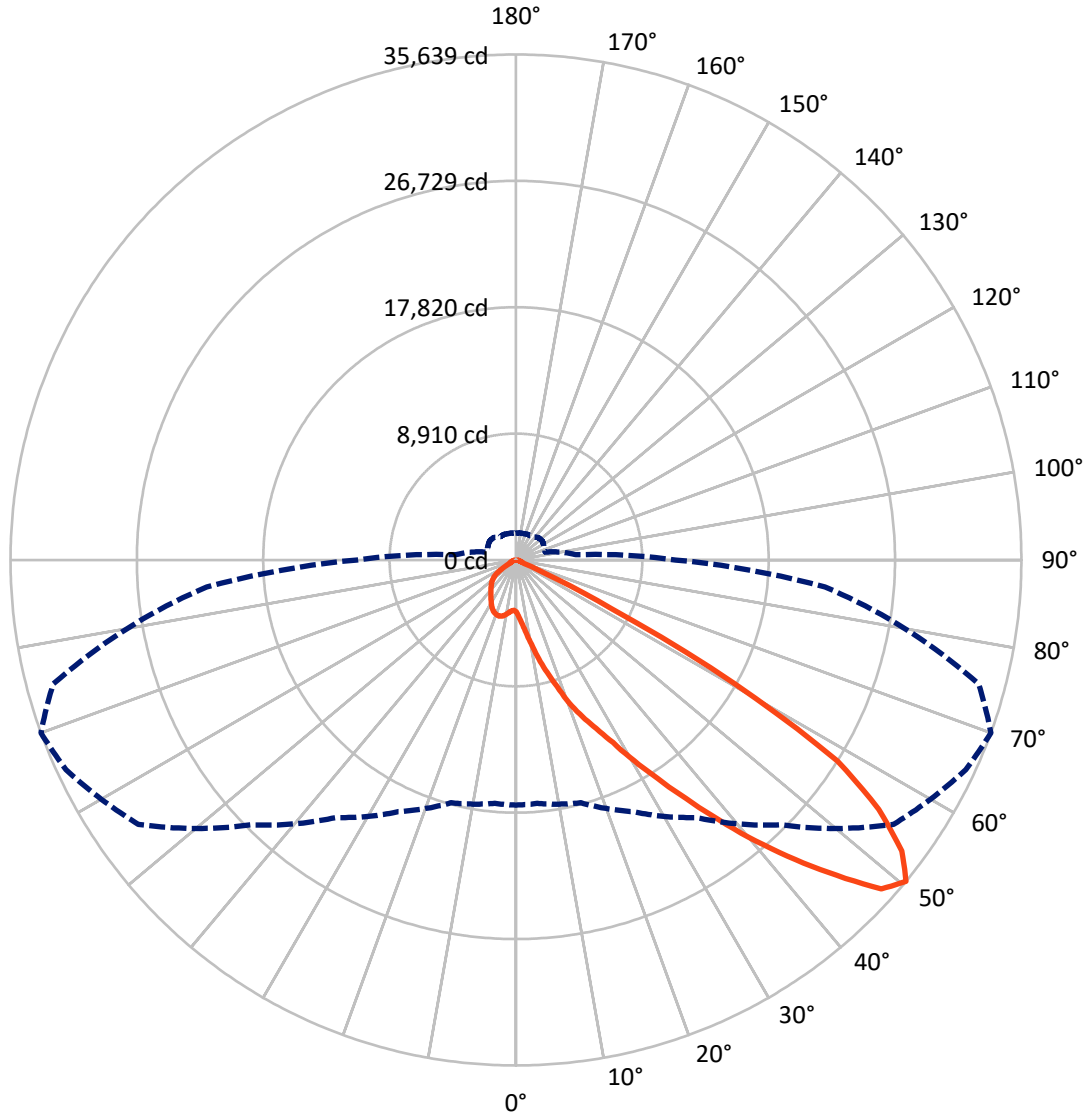
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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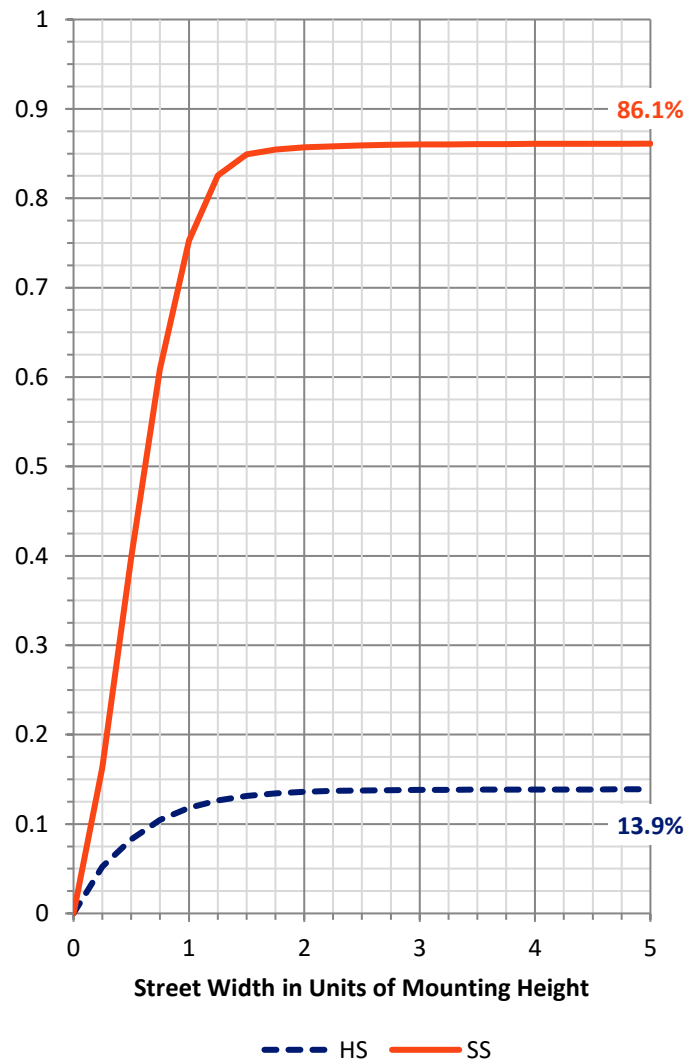
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4923.2	0.0	4923.2
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	30328.8	0.0	30328.8
	% Fixture	86.0	0.0	86.0
Total	Lumens	35252.0	0.0	35252.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.8	1.3
10°-20°	2053.9	5.8
20°-30°	4308.7	12.2
30°-40°	7426.8	21.1
40°-50°	10854.2	30.8
50°-60°	8453.6	24.0
60°-70°	1432.3	4.1
70°-80°	196.8	0.6
80°-90°	51.0	0.1
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°	35252.0	100.0
0°-180°	35252.0	100.0



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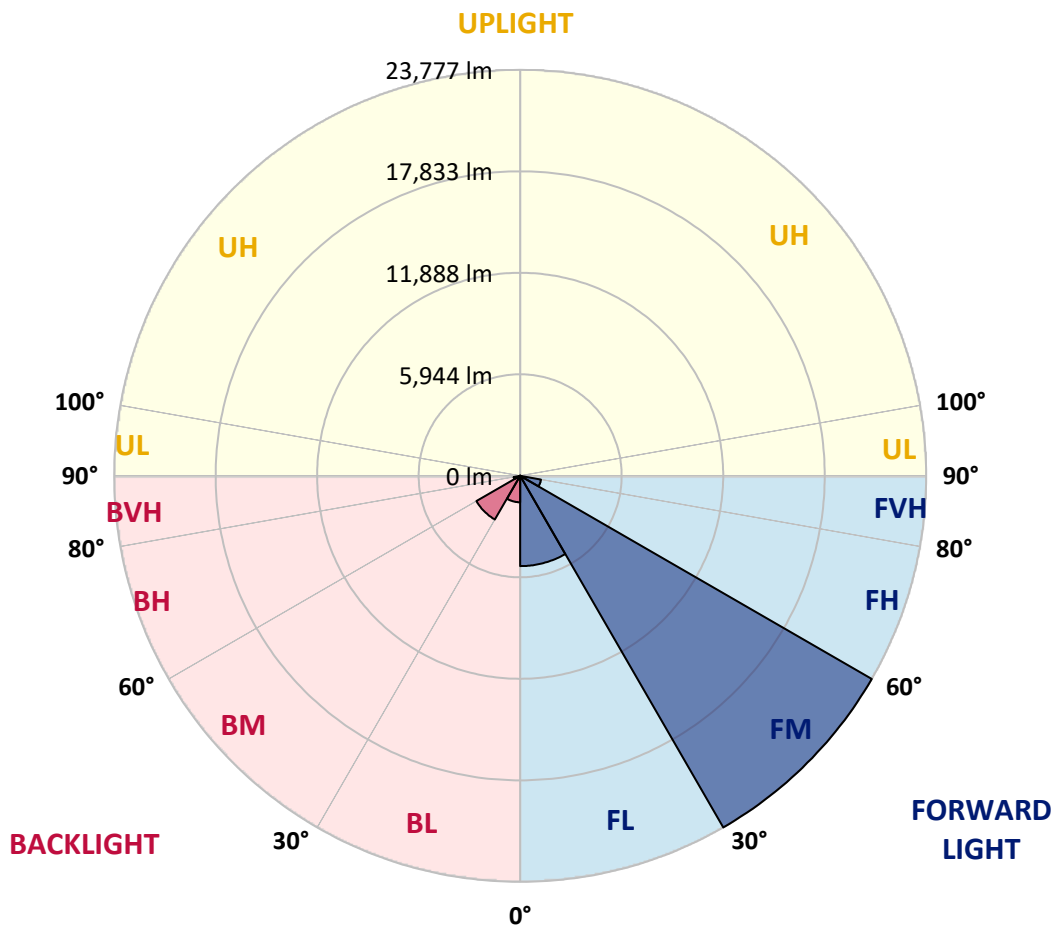
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5288.2	15.0			
FM (30°-60°)	23776.9	67.4			
FH (60°-80°)	1240.2	3.5			G1/1800
FVH (80°-90°)	23.6	0.1			G1/100
BL (0°-30°)	1549.2	4.4	B3/2500		
BM (30°-60°)	2957.7	8.4	B3/5000		
BH (60°-80°)	388.9	1.1	B1/500		G1/500
BVH (80°-90°)	27.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4
2.5°	4781.6	4746.8	4671.5	4532.4	4474.4	4335.3	4254.2	4097.7	3999.2	3889.0	3767.3
5°	6734.8	6555.2	6445.0	6288.5	5830.7	5546.7	5077.2	4677.3	4491.8	4289.0	4010.8
7.5°	8751.8	8635.9	8485.2	8149.0	7836.0	7244.9	6439.2	5558.3	5181.5	4833.8	4283.2
10°	10421.0	10096.4	10079.1	9829.8	9487.9	8780.8	7812.9	6717.4	6045.1	5535.1	4671.5
12.5°	11586.0	11290.4	11423.7	11394.7	11076.0	10426.8	9308.2	7859.2	7157.9	6363.9	5071.4
15°	12646.6	12524.9	12484.4	12449.6	12322.1	11841.0	10838.3	9250.2	8236.0	7279.6	5523.5
17.5°	13684.1	13371.1	13521.8	13550.8	13539.2	13104.5	12165.6	10571.7	9377.8	8247.6	5998.7
20°	14605.7	14634.6	14431.8	14391.2	14356.4	14339.0	13423.3	11881.6	10780.4	9261.8	6618.9
22.5°	15788.0	15585.2	15764.8	15648.9	15422.9	15283.8	14582.5	13040.8	11997.5	10484.8	7250.7
25°	17184.8	17347.1	16924.0	16877.6	16628.4	16147.4	15515.6	14339.0	13168.3	11620.8	7934.6
27.5°	18906.2	18622.2	18512.1	18257.1	17805.0	17602.1	16860.3	15677.9	14582.5	12814.7	8595.3
30°	20384.2	20308.8	19758.2	19456.8	19062.7	19056.9	18019.4	17492.0	16425.6	14686.8	9505.3
32.5°	21589.7	21259.3	21056.5	20847.8	20529.1	20616.0	19740.8	19462.6	18390.4	16425.6	10577.5
35°	22395.3	22157.7	22036.0	21717.2	21624.5	22012.8	21647.7	21531.7	20650.8	18871.4	11835.2
37.5°	22650.4	22725.7	22702.5	22302.6	22499.7	23548.7	24018.2	23716.8	23253.1	21450.6	13197.2
40°	22876.4	22928.6	22812.6	23282.1	23844.3	25038.3	26736.5	26238.0	26064.1	24064.6	15092.5
42.5°	23003.9	22963.3	22963.3	23774.8	24626.8	27026.3	29362.0	29031.6	28898.3	26846.6	17283.4
45°	22453.3	22059.2	22482.3	23583.5	25299.1	28005.8	31460.1	31918.0	31726.7	30156.0	19845.1
47.5°	20395.7	20639.2	20876.8	22349.0	24481.9	27704.4	32746.8	34305.9	34659.4	32938.1	21525.9
50°	17283.4	17231.2	17723.8	19578.5	22169.3	26406.1	32497.6	34995.6	35639.0	33772.7	21879.5
52.5°	12571.3	12953.8	13487.0	15330.1	18402.0	23044.5	29280.9	33216.3	34074.1	32746.8	21647.7
55°	7320.2	6897.1	8096.9	9656.0	12553.9	17381.9	24754.3	29443.1	31031.2	30880.5	20476.9
57.5°	2932.7	2840.0	3251.5	4381.7	6549.4	10774.6	18002.0	24192.1	26736.5	28284.0	17996.2
60°	1286.7	1257.7	1478.0	1785.1	2677.7	4967.1	9847.2	15046.1	17700.7	19764.0	12385.8
62.5°	927.3	915.8	1025.9	1136.0	1414.2	2161.9	4138.3	6062.5	7557.8	9128.5	5546.7
65°	747.7	776.6	852.0	910.0	1043.3	1199.7	1460.6	1686.6	2069.1	2144.5	1222.9
67.5°	608.6	631.8	701.3	765.1	788.2	649.1	672.3	591.2	591.2	527.4	423.1
70°	446.3	452.1	533.2	608.6	486.9	260.8	457.9	457.9	411.5	394.1	359.3
72.5°	330.4	336.2	399.9	376.7	191.3	162.3	336.2	370.9	336.2	318.8	289.8
75°	243.4	249.2	208.7	86.9	81.1	104.3	197.1	255.0	243.4	237.6	220.2
77.5°	46.4	34.8	29.0	40.6	58.0	86.9	127.5	156.5	162.3	173.9	162.3
80°	5.8	5.8	17.4	34.8	63.8	92.7	133.3	150.7	156.5	162.3	150.7
82.5°	0.0	5.8	17.4	34.8	63.8	86.9	115.9	133.3	144.9	150.7	144.9
85°	0.0	5.8	11.6	29.0	52.2	63.8	58.0	40.6	34.8	40.6	29.0
87.5°	0.0	0.0	5.8	5.8	11.6	11.6	11.6	11.6	11.6	11.6	11.6
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°	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4
2.5°	3697.8	3674.6	3593.5	3506.5	3431.2	3465.9	3431.2	3402.2	3413.8	3402.2	3390.6
5°	3900.6	3796.3	3622.4	3547.1	3483.3	3477.5	3460.1	3454.4	3460.1	3460.1	3408.0
7.5°	4091.9	3923.8	3738.4	3657.2	3581.9	3587.7	3547.1	3547.1	3541.3	3512.3	3500.7
10°	4381.7	4155.7	3918.0	3773.1	3680.4	3663.0	3622.4	3581.9	3581.9	3581.9	3523.9
12.5°	4700.5	4416.5	4091.9	3923.8	3813.7	3726.8	3663.0	3651.4	3587.7	3576.1	3547.1
15°	4978.7	4619.3	4207.8	3976.0	3836.9	3721.0	3622.4	3558.7	3529.7	3512.3	3489.1
17.5°	5251.1	4793.2	4271.6	3976.0	3825.3	3692.0	3587.7	3529.7	3460.1	3471.7	3425.4
20°	5616.2	4978.7	4289.0	3900.6	3715.2	3587.7	3448.6	3419.6	3379.0	3344.2	3355.8
22.5°	5969.8	5112.0	4236.8	3807.9	3541.3	3390.6	3321.0	3286.3	3268.9	3239.9	3199.3
25°	6288.5	5256.9	4155.7	3639.8	3355.8	3245.7	3181.9	3176.1	3135.6	3135.6	3060.2
27.5°	6613.1	5309.0	4016.6	3442.8	3193.5	3129.8	3100.8	3089.2	3071.8	3031.3	2979.1
30°	6984.1	5326.4	3813.7	3239.9	3048.6	2979.1	3019.7	3048.6	2973.3	2897.9	2921.1
32.5°	7291.2	5285.9	3570.3	3048.6	2944.3	2909.5	2990.7	3019.7	2932.7	2851.6	2811.0
35°	7662.2	5187.3	3332.6	2897.9	2840.0	2909.5	2979.1	2979.1	2805.2	2706.7	2683.5
37.5°	8224.4	5077.2	3112.4	2770.4	2729.9	2874.8	2967.5	2903.7	2631.3	2509.6	2480.6
40°	8827.1	5007.7	2897.9	2642.9	2671.9	2816.8	2869.0	2671.9	2393.7	2318.4	2295.2
42.5°	9702.3	4868.6	2706.7	2532.8	2619.7	2735.7	2735.7	2382.1	2277.8	2237.2	2231.4
45°	10792.0	4770.0	2538.6	2440.1	2544.4	2573.4	2480.6	2231.4	2156.1	2144.5	2150.3
47.5°	11325.2	4578.8	2364.7	2329.9	2405.3	2411.1	2167.7	2109.7	2046.0	2028.6	2017.0
50°	11244.0	4236.8	2138.7	2185.1	2289.4	2231.4	1976.4	1988.0	1930.0	1924.2	1895.3
52.5°	10676.0	3697.8	1912.6	2022.8	2138.7	1970.6	1819.9	1808.3	1808.3	1733.0	1704.0
55°	9464.7	2979.1	1640.2	1779.3	1918.4	1657.6	1617.1	1605.5	1576.5	1506.9	1489.5
57.5°	7494.1	2185.1	1234.5	1385.2	1628.6	1408.4	1402.6	1350.4	1275.1	1222.9	1222.9
60°	4457.0	1257.7	776.6	846.2	1078.0	1141.8	1269.3	1246.1	1118.6	1037.5	1014.3
62.5°	2034.4	649.1	492.7	504.2	579.6	741.9	996.9	1153.4	973.7	834.6	823.0
65°	683.9	481.1	405.7	388.3	399.9	446.3	597.0	817.2	776.6	643.3	620.2
67.5°	417.3	428.9	382.5	353.5	353.5	347.8	342.0	370.9	457.9	446.3	452.1
70°	359.3	394.1	353.5	318.8	307.2	289.8	243.4	202.9	173.9	202.9	214.4
72.5°	289.8	313.0	301.4	272.4	243.4	220.2	173.9	133.3	98.5	86.9	86.9
75°	214.4	231.8	243.4	208.7	185.5	156.5	127.5	86.9	52.2	34.8	34.8
77.5°	156.5	173.9	179.7	162.3	139.1	110.1	81.1	58.0	29.0	11.6	11.6
80°	133.3	156.5	173.9	162.3	144.9	104.3	75.3	40.6	23.2	5.8	5.8
82.5°	127.5	156.5	173.9	156.5	139.1	98.5	75.3	46.4	17.4	5.8	5.8
85°	29.0	40.6	52.2	63.8	75.3	75.3	58.0	34.8	17.4	5.8	5.8
87.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	5.8	5.8	0.0
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)