

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P633545

Luminaire Tested: GWS-SA2E-830-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-830-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11819 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

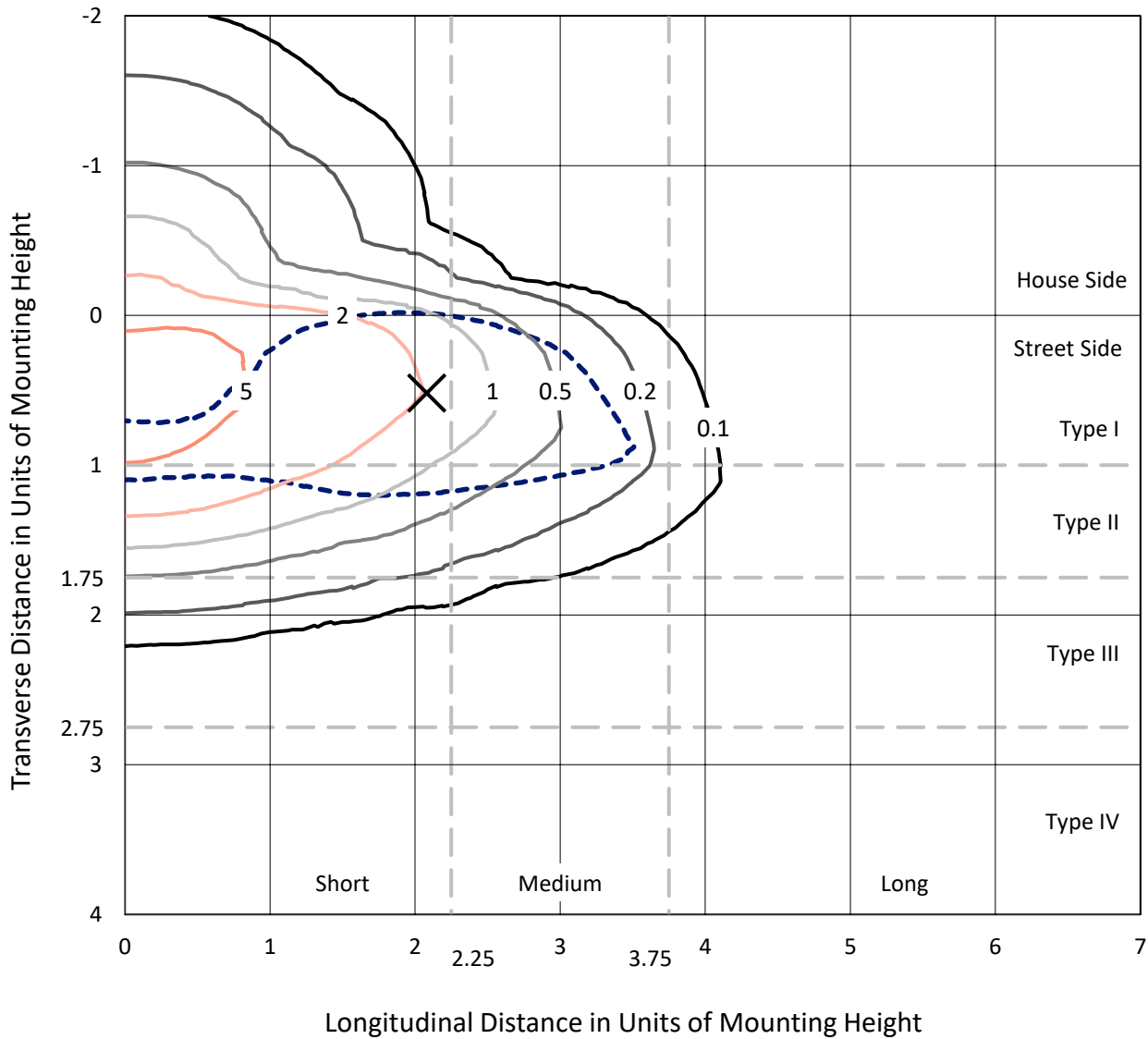
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

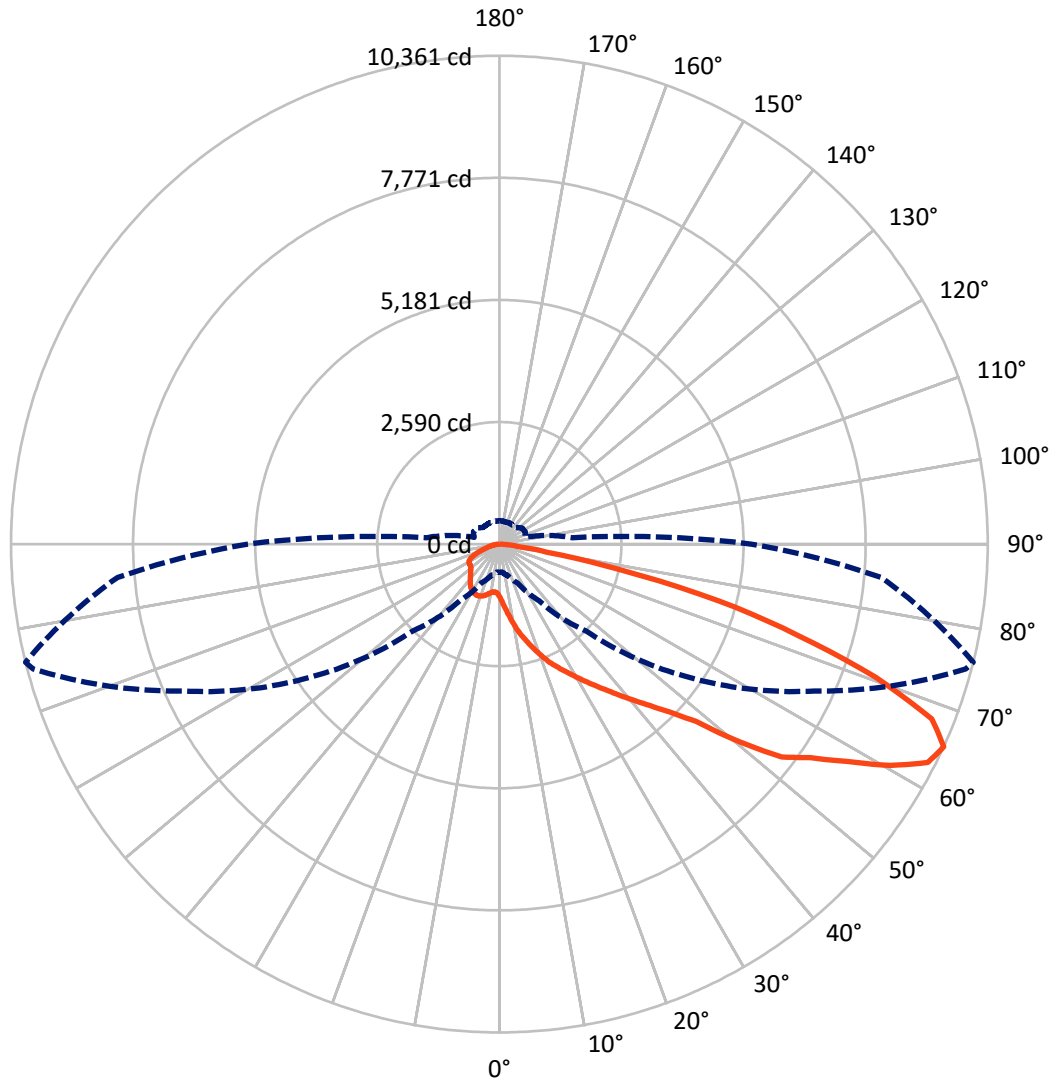
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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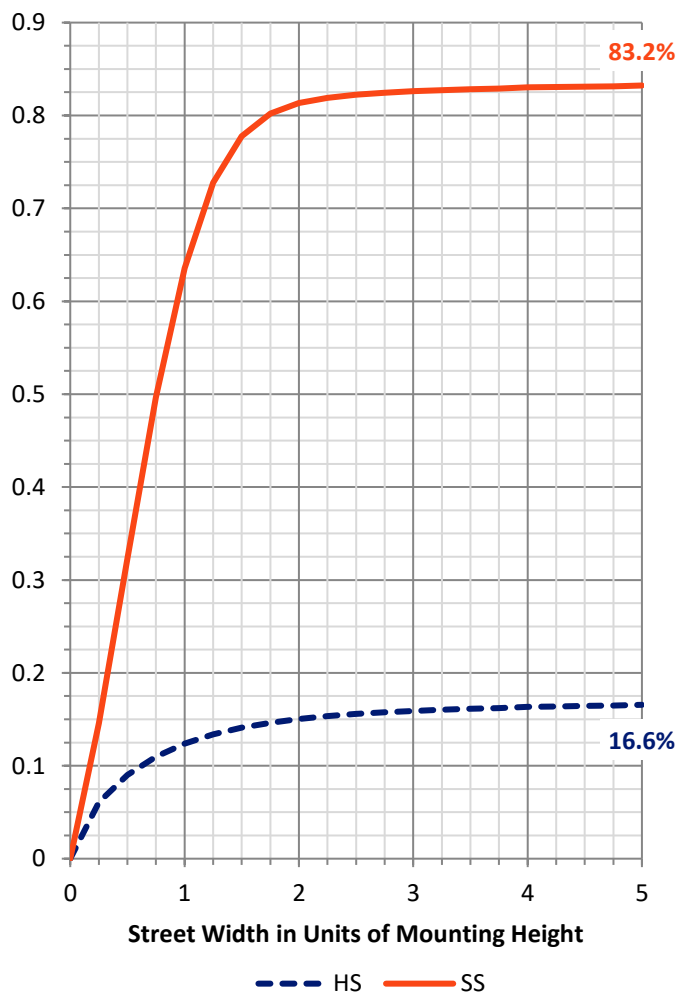
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1975.6	0.0	1975.6
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	9843.4	0.0	9843.4
	% Fixture	83.3	0.0	83.3
Total	Lumens	11819.0	0.0	11819.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	1.1
10°-20°	506.5	4.3
20°-30°	987.0	8.4
30°-40°	1650.7	14.0
40°-50°	2363.5	20.0
50°-60°	2798.1	23.7
60°-70°	2326.7	19.7
70°-80°	952.1	8.1
80°-90°	101.4	0.9
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°	11819.0	100.0
0°-180°	11819.0	100.0

Coefficient of Utilization



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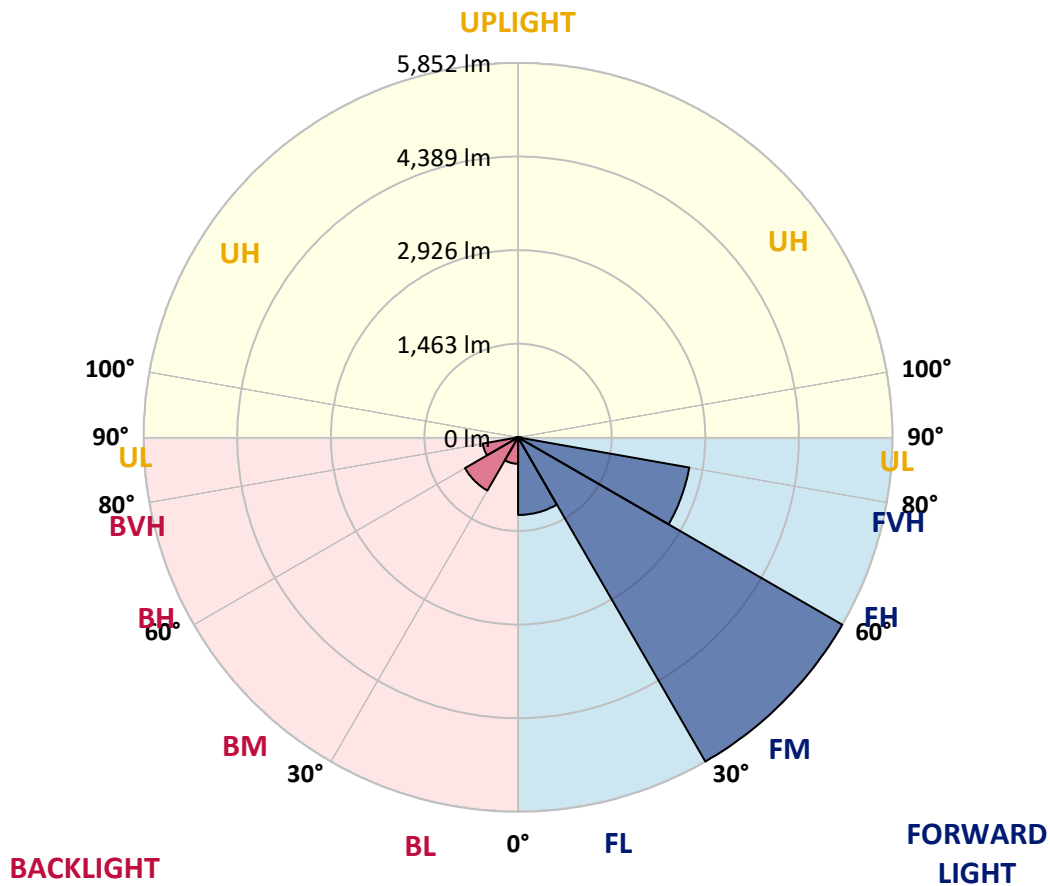
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1213.2	10.3			
FM (30°-60°)	5852.3	49.5			
FH (60°-80°)	2717.5	23.0			G2/5000
FVH (80°-90°)	60.5	0.5			G1/100
BL (0°-30°)	413.3	3.5	B1/500		
BM (30°-60°)	960.1	8.1	B1/1000		
BH (60°-80°)	561.3	4.7	B2/1000		G2/1000
BVH (80°-90°)	40.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2
2.5°	1568.7	1574.5	1555.4	1548.8	1503.9	1443.3	1392.6	1316.1	1245.5	1234.7	1171.6
5°	1992.5	1967.6	1946.0	1931.8	1869.5	1800.5	1693.4	1549.6	1399.2	1380.9	1244.7
7.5°	2244.2	2240.1	2213.5	2205.2	2157.0	2088.0	1977.5	1798.9	1580.4	1550.5	1343.6
10°	2446.2	2443.7	2430.4	2437.8	2393.8	2326.5	2219.3	2034.9	1778.9	1749.0	1454.1
12.5°	2622.3	2626.5	2624.0	2651.4	2629.0	2576.6	2465.3	2262.5	1977.5	1945.1	1588.7
15°	2751.1	2754.4	2766.9	2826.7	2839.2	2828.4	2715.4	2486.0	2173.6	2127.1	1727.4
17.5°	2787.7	2794.3	2824.2	2920.6	2987.9	3032.8	2948.8	2713.7	2366.4	2315.7	1868.7
20°	2836.7	2844.2	2874.1	2974.6	3073.5	3175.7	3160.7	2944.7	2560.8	2519.3	2011.6
22.5°	3063.5	3057.7	3044.4	3092.6	3163.2	3290.3	3327.7	3166.5	2761.9	2722.0	2169.5
25°	3500.6	3489.8	3405.0	3361.0	3337.7	3415.0	3481.5	3368.4	2958.0	2898.2	2316.5
27.5°	3982.5	3976.7	3868.6	3764.0	3621.0	3587.8	3626.9	3544.6	3148.3	3087.6	2444.5
30°	4438.6	4421.2	4308.2	4176.9	3985.8	3842.9	3785.6	3717.4	3356.8	3293.7	2594.1
32.5°	4846.6	4824.2	4691.2	4545.8	4345.6	4176.9	4005.7	3901.1	3592.8	3519.7	2746.9
35°	5181.5	5159.0	5022.8	4868.2	4648.0	4523.4	4289.1	4100.5	3832.9	3759.0	2927.2
37.5°	5440.7	5419.9	5277.8	5125.8	4933.9	4835.0	4631.4	4324.8	4109.6	4032.3	3118.3
40°	5586.1	5571.2	5457.3	5336.8	5175.6	5090.1	4998.7	4608.1	4419.5	4342.3	3343.5
42.5°	5630.1	5620.2	5540.4	5478.1	5369.2	5304.4	5356.8	4941.3	4750.2	4682.9	3596.9
45°	5519.6	5519.6	5496.4	5527.9	5532.9	5532.1	5715.7	5317.7	5156.5	5082.6	3954.2
47.5°	5237.1	5255.4	5289.5	5444.9	5608.5	5745.6	6135.3	5819.6	5679.2	5618.5	4460.2
50°	4720.3	4770.2	4886.5	5189.8	5537.9	5886.9	6532.5	6561.6	6695.4	6588.2	5204.7
52.5°	3963.4	3955.9	4252.5	4684.6	5215.5	5892.7	6751.0	7216.3	7576.1	7502.2	5758.1
55°	3149.9	3137.5	3414.1	4009.9	4721.1	5670.0	6882.3	7516.3	8064.7	7998.2	6255.8
57.5°	2412.1	2396.3	2642.2	3179.8	4023.2	5197.2	6857.4	7873.6	8736.9	8702.8	6932.2
60°	1660.1	1641.0	1871.2	2341.5	3197.3	4474.4	6581.5	8057.2	9523.7	9535.4	7655.9
62.5°	997.1	986.3	1153.3	1518.0	2299.9	3578.7	5935.9	7945.8	10150.2	10202.6	8121.2
65°	601.6	594.1	692.1	905.7	1459.1	2611.5	4940.5	7376.7	10240.8	10361.3	8132.0
67.5°	437.9	438.7	467.0	551.7	850.8	1686.7	3707.5	6356.3	9768.8	9893.5	7619.3
70°	380.5	382.2	397.2	416.3	514.3	965.5	2410.4	5017.8	8373.8	8470.1	6390.4
72.5°	338.2	338.2	348.1	358.1	402.2	588.3	1291.2	3507.2	6608.9	6634.7	4877.4
75°	297.5	295.0	300.0	304.9	349.0	411.3	628.2	2443.7	4881.5	4821.7	3152.4
77.5°	236.8	234.3	235.1	240.1	280.0	294.1	318.2	1526.4	2751.1	2596.5	1392.6
80°	168.7	167.0	176.1	188.6	206.9	180.3	199.4	738.7	1091.0	1015.4	540.1
82.5°	100.5	103.9	118.0	128.0	142.9	113.0	128.8	246.8	386.4	376.4	219.4
85°	14.1	15.0	42.4	49.0	61.5	44.0	68.1	111.3	154.5	165.3	77.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.8	19.9	44.0	44.9	19.1
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°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2
2.5°	1139.2	1100.1	1044.4	997.9	958.9	927.3	900.7	880.7	874.9	866.6	866.6
5°	1180.7	1110.1	1010.4	939.7	899.0	874.9	858.3	850.0	845.9	840.9	838.4
7.5°	1238.0	1139.2	1004.6	933.1	901.5	886.6	875.8	870.8	867.5	862.5	862.5
10°	1317.0	1182.4	1022.8	956.4	931.4	916.5	904.0	895.7	888.2	880.7	879.1
12.5°	1402.6	1238.9	1056.1	987.9	961.3	943.1	925.6	913.2	904.0	894.9	892.4
15°	1497.3	1297.0	1091.8	1018.7	985.4	960.5	939.7	920.6	908.2	894.9	893.2
17.5°	1590.3	1356.0	1121.7	1039.4	997.1	966.3	936.4	911.5	895.7	880.7	876.6
20°	1701.7	1415.0	1142.5	1045.3	994.6	953.9	918.1	886.6	869.1	851.7	849.2
22.5°	1803.9	1469.9	1152.5	1037.0	975.5	927.3	885.7	851.7	832.6	815.1	811.8
25°	1902.7	1518.0	1148.3	1017.0	946.4	890.7	847.5	813.4	795.2	776.9	771.9
27.5°	1998.3	1550.5	1131.7	986.3	909.8	850.0	808.5	777.7	761.9	746.1	739.5
30°	2092.2	1580.4	1105.9	946.4	863.3	807.6	773.6	752.0	736.2	719.6	714.6
32.5°	2186.9	1602.0	1066.9	899.9	815.9	770.2	749.5	733.7	717.1	700.4	695.5
35°	2282.5	1611.1	1019.5	846.7	776.1	746.1	738.7	720.4	698.0	678.0	671.4
37.5°	2396.3	1619.4	960.5	794.3	741.2	734.5	732.8	705.4	678.8	651.4	643.9
40°	2533.4	1630.2	899.9	747.0	712.9	730.4	723.7	686.3	633.1	606.6	598.2
42.5°	2701.2	1650.2	836.7	703.8	692.1	714.6	707.1	639.8	604.1	589.1	585.0
45°	2948.0	1723.3	773.6	669.7	676.3	692.1	680.5	612.4	598.2	588.3	583.3
47.5°	3387.6	1835.4	718.7	643.9	663.9	672.2	627.3	604.9	594.1	580.8	575.0
50°	3844.6	1884.5	674.7	628.2	649.8	653.9	598.2	594.9	587.4	573.3	567.5
52.5°	4153.6	1877.8	648.1	622.3	638.1	622.3	585.0	584.1	579.1	562.5	555.9
55°	4502.6	1889.5	636.5	624.0	633.1	569.2	568.3	570.8	568.3	550.1	546.7
57.5°	4973.7	1925.2	630.6	629.8	629.8	543.4	552.5	555.9	550.9	542.6	540.1
60°	5426.6	1927.7	619.8	636.5	627.3	527.6	534.3	537.6	531.8	530.1	529.3
62.5°	5596.9	1808.0	595.8	631.5	617.4	510.2	515.2	516.8	511.0	515.2	514.3
65°	5343.5	1553.8	555.9	607.4	586.6	494.4	491.1	495.2	485.2	496.0	496.9
67.5°	4744.4	1234.7	495.2	561.7	543.4	476.9	470.3	470.3	453.7	470.3	469.5
70°	3825.4	872.4	406.3	488.6	496.0	456.2	452.8	433.7	407.1	432.1	429.6
72.5°	2899.8	626.5	319.9	386.4	427.1	427.1	427.9	395.5	364.8	376.4	366.4
75°	1837.1	441.2	255.9	295.8	334.9	374.7	393.8	334.0	306.6	301.6	296.6
77.5°	827.6	290.0	199.4	226.8	237.6	295.8	359.8	287.5	250.1	239.3	236.0
80°	346.5	180.3	142.1	160.4	146.2	248.4	317.4	223.5	183.6	168.7	157.9
82.5°	152.1	107.2	90.6	86.4	91.4	184.5	236.8	148.7	114.7	155.4	157.0
85°	64.0	56.5	46.5	42.4	37.4	70.6	111.3	58.2	71.5	40.7	33.2
87.5°	15.0	16.6	12.5	8.3	5.0	0.8	0.0	0.0	0.0	0.0	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)