

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: P630848

Luminaire Tested: GWS-SA1E-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630848
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-740-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (16) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6669.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

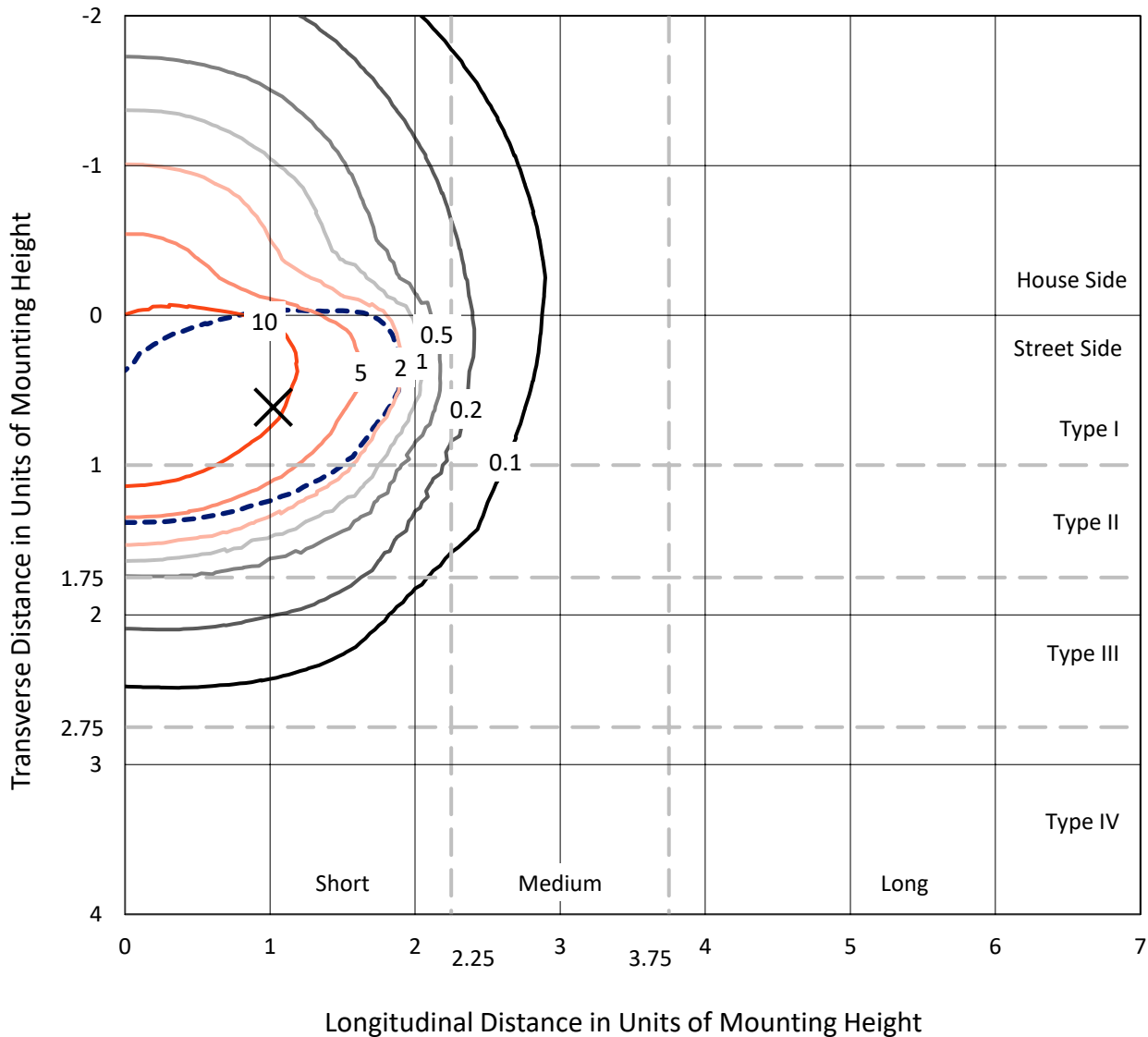
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

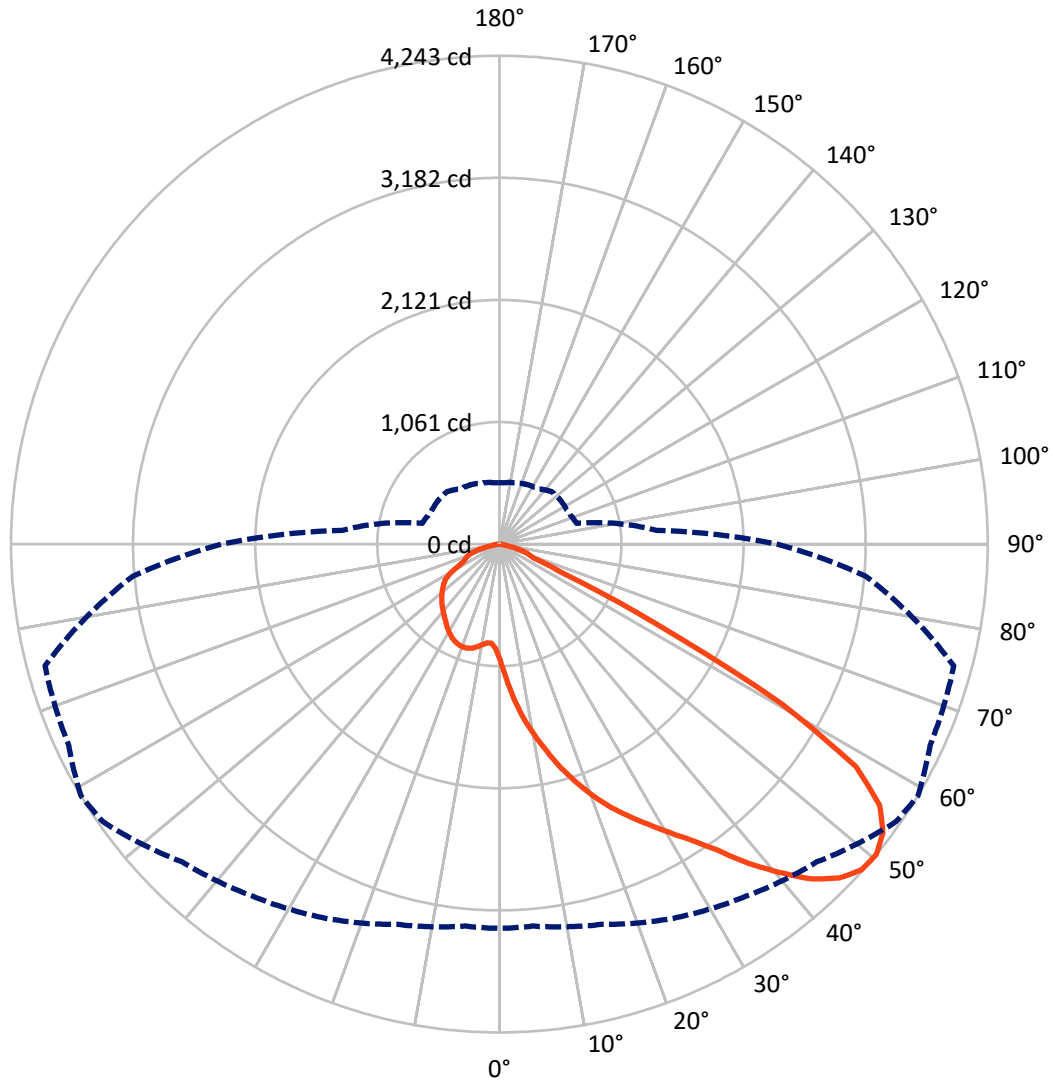
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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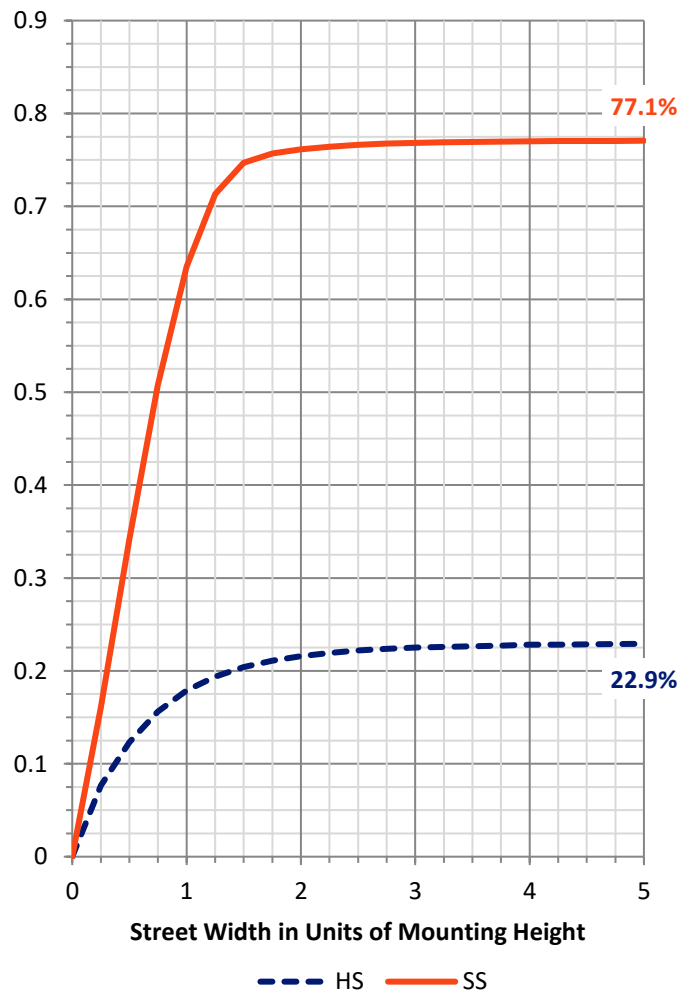
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1534.0	0.0	1534.0
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	5135.1	0.0	5135.1
	% Fixture	77.0	0.0	77.0
Total	Lumens	6669.1	0.0	6669.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	1.7
10°-20°	411.5	6.2
20°-30°	779.2	11.7
30°-40°	1292.1	19.4
40°-50°	1765.1	26.5
50°-60°	1602.3	24.0
60°-70°	533.6	8.0
70°-80°	155.6	2.3
80°-90°	16.3	0.2
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°	6669.1	100.0
0°-180°	6669.1	100.0

Coefficient of Utilization



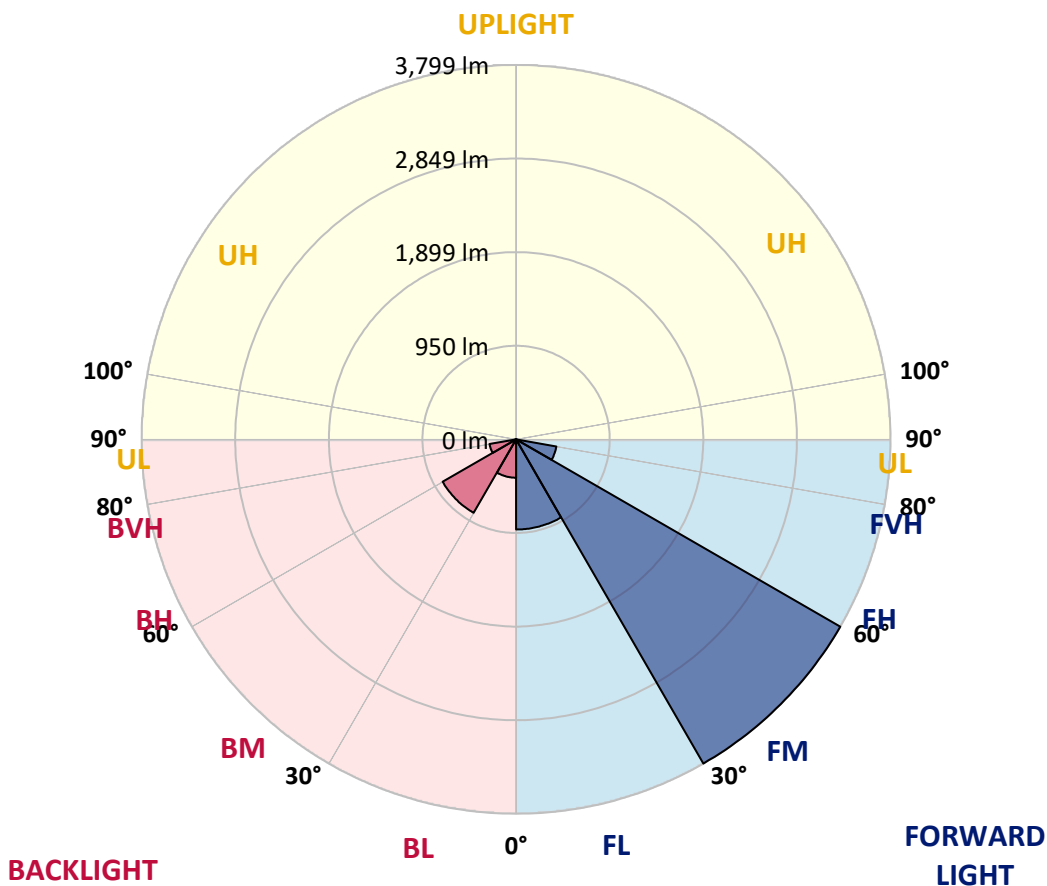
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.5	13.7			
FM (30°-60°)	3798.8	57.0			
FH (60°-80°)	415.4	6.2			G0/660
FVH (80°-90°)	6.4	0.1			G0/10
BL (0°-30°)	389.5	5.8	B1/500		
BM (30°-60°)	860.7	12.9	B1/1000		
BH (60°-80°)	273.8	4.1	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4
2.5°	1309.2	1319.0	1303.8	1304.8	1266.8	1249.4	1200.5	1171.8	1152.7	1099.5	1051.2
5°	1573.2	1561.8	1549.8	1542.8	1509.6	1462.9	1402.1	1353.7	1309.2	1204.9	1104.4
7.5°	1735.1	1729.1	1721.0	1716.6	1684.0	1635.1	1574.3	1533.0	1468.4	1327.1	1169.0
10°	1872.5	1865.5	1860.6	1863.8	1837.2	1805.7	1739.4	1692.2	1619.4	1456.4	1247.3
12.5°	1979.0	1982.8	1984.4	2001.8	1990.4	1971.4	1902.9	1853.0	1772.0	1592.8	1339.1
15°	2063.2	2062.1	2081.1	2114.3	2132.7	2120.8	2065.9	2024.1	1925.2	1726.9	1437.9
17.5°	2082.8	2083.8	2113.7	2171.9	2232.1	2261.5	2230.5	2180.5	2082.8	1859.5	1540.6
20°	2098.5	2100.7	2131.7	2197.9	2285.9	2368.0	2372.8	2337.0	2252.8	2002.9	1644.9
22.5°	2197.9	2202.8	2211.0	2252.8	2332.1	2435.9	2492.9	2485.3	2414.7	2153.4	1757.4
25°	2459.2	2444.6	2404.9	2392.9	2423.4	2507.6	2604.8	2619.5	2584.7	2319.1	1878.5
27.5°	2781.9	2766.1	2707.5	2645.6	2579.8	2609.2	2712.9	2756.9	2757.5	2501.6	2000.2
30°	3074.7	3062.2	3014.4	2925.9	2812.3	2770.0	2846.5	2905.8	2941.1	2712.4	2138.7
32.5°	3325.1	3313.7	3249.1	3176.8	3066.0	2980.7	3008.4	3065.5	3148.0	2985.1	2310.9
35°	3535.9	3524.5	3462.6	3389.8	3287.1	3236.0	3226.3	3265.4	3372.4	3269.7	2508.7
37.5°	3707.0	3695.6	3631.0	3562.5	3484.3	3487.6	3502.2	3521.2	3582.6	3574.5	2720.0
40°	3817.9	3805.9	3759.7	3710.8	3661.4	3700.5	3773.3	3750.5	3783.1	3820.6	2914.5
42.5°	3867.3	3852.1	3825.5	3814.6	3799.4	3860.2	4000.4	3977.6	3938.4	3984.6	3059.0
45°	3817.9	3804.8	3804.3	3837.4	3872.7	3950.9	4157.4	4138.9	4040.0	4063.9	3145.3
47.5°	3666.3	3654.9	3685.8	3772.8	3859.7	3973.8	4227.4	4230.7	4112.3	4097.1	3201.3
50°	3338.7	3331.1	3420.7	3585.3	3735.3	3902.6	4205.2	4242.7	4129.7	4086.8	3194.2
52.5°	2672.7	2708.0	2903.0	3177.9	3469.1	3777.7	4122.6	4171.5	4046.0	4018.8	3156.2
55°	1829.6	1845.9	2040.9	2442.4	2904.1	3507.1	3933.0	4008.5	3947.1	4007.4	3195.8
57.5°	947.4	960.4	1114.2	1470.5	1969.8	2771.6	3406.6	3654.3	3747.8	4065.0	3319.2
60°	389.0	399.8	463.4	635.6	993.6	1613.9	2451.6	2818.8	3038.3	3712.5	2947.6
62.5°	282.5	287.9	318.3	379.2	520.4	790.9	1387.4	1522.7	1677.0	2326.7	1871.4
65°	237.9	243.9	268.4	305.3	379.7	485.1	592.7	595.9	656.8	947.9	693.7
67.5°	199.4	204.8	226.5	258.0	306.9	344.4	318.3	318.9	317.8	343.9	332.5
70°	155.4	159.7	181.4	215.1	240.7	221.1	248.8	275.4	264.0	274.3	290.1
72.5°	113.5	118.4	137.4	163.0	156.5	157.5	201.5	228.7	222.2	233.6	248.3
75°	82.0	85.3	95.1	81.5	85.8	103.8	141.8	156.5	163.0	172.7	185.8
77.5°	26.6	26.6	29.9	37.5	46.7	57.6	72.3	78.2	88.0	98.9	108.1
80°	13.6	14.1	16.8	20.6	26.1	33.1	42.4	45.1	50.0	56.0	59.8
82.5°	6.5	7.1	8.1	10.3	13.6	17.4	23.4	26.1	29.3	33.1	35.9
85°	1.6	1.6	2.2	3.3	4.3	6.5	8.7	10.3	13.0	15.8	17.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.2	2.7	3.3	4.3
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°	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4	1010.4
2.5°	1029.4	999.0	959.9	926.8	896.3	873.0	852.9	843.1	833.9	827.3	829.5
5°	1057.7	1005.5	932.7	882.2	851.2	835.5	824.6	819.2	818.1	813.8	812.1
7.5°	1099.0	1024.5	927.3	876.2	855.6	847.4	841.5	838.2	839.8	835.5	833.9
10°	1150.0	1056.0	940.9	895.8	877.9	871.9	865.4	861.0	858.9	852.3	851.2
12.5°	1213.6	1095.2	965.3	920.8	902.9	892.5	883.8	876.2	871.3	863.2	861.0
15°	1282.0	1138.6	994.1	945.2	924.0	908.8	894.7	883.3	874.6	863.7	862.1
17.5°	1356.5	1184.3	1018.0	962.1	934.9	914.8	894.2	877.3	865.4	851.2	849.6
20°	1434.1	1230.4	1035.9	970.2	935.4	908.3	880.6	858.3	843.1	829.0	827.9
22.5°	1514.5	1272.8	1046.8	968.0	926.8	893.1	859.9	835.0	817.0	800.2	799.1
25°	1595.5	1313.5	1049.5	959.4	909.4	870.3	837.1	807.8	787.7	768.7	766.5
27.5°	1677.5	1347.8	1043.0	942.0	886.0	843.6	810.5	781.7	761.1	742.1	738.8
30°	1765.0	1377.1	1028.9	919.2	858.9	815.4	782.8	761.1	741.5	722.5	719.2
32.5°	1858.4	1402.6	1008.8	891.4	827.3	787.1	763.2	743.7	724.1	707.3	704.0
35°	1969.8	1419.5	978.9	855.6	798.0	766.5	750.2	727.4	703.5	685.0	683.4
37.5°	2084.9	1432.5	943.1	821.4	772.5	754.6	741.0	710.0	680.1	657.9	655.1
40°	2196.3	1443.4	898.5	789.3	749.1	745.9	727.4	688.8	637.2	612.2	610.1
42.5°	2300.1	1446.6	851.8	755.1	727.9	726.3	705.7	645.9	606.2	590.5	588.3
45°	2371.2	1443.9	803.4	723.0	706.7	698.1	676.3	614.9	590.5	576.4	573.7
47.5°	2423.9	1429.8	749.1	689.4	682.8	670.9	624.2	595.4	572.6	558.4	555.7
50°	2414.7	1371.1	694.3	656.8	654.1	643.7	586.1	570.9	550.8	535.6	533.5
52.5°	2366.9	1259.8	638.3	620.9	626.3	606.2	559.0	541.6	524.2	506.8	503.0
55°	2378.8	1179.4	595.9	586.1	595.9	550.3	528.6	510.1	493.8	477.0	473.7
57.5°	2431.0	1100.0	550.8	548.7	559.0	507.4	489.5	466.1	442.7	429.2	429.2
60°	2041.5	801.8	471.5	477.0	500.3	472.6	456.9	433.0	407.4	395.5	395.5
62.5°	1207.1	503.0	391.1	385.2	399.8	417.2	425.9	406.3	375.9	360.2	360.7
65°	531.8	366.1	345.0	340.1	335.7	347.7	371.6	373.2	341.2	322.7	323.2
67.5°	327.6	331.4	322.7	318.9	315.1	312.9	310.7	311.8	303.1	286.3	285.7
70°	295.5	305.8	299.9	296.6	291.7	287.9	274.9	253.7	239.0	234.7	239.6
72.5°	254.2	268.4	265.1	263.5	257.5	248.3	230.9	210.2	192.8	182.0	184.2
75°	191.8	203.2	204.8	205.3	198.8	190.1	172.2	154.8	139.6	128.2	130.9
77.5°	110.3	116.8	118.4	120.1	115.2	111.9	100.0	87.5	79.3	67.4	70.6
80°	61.4	64.1	64.1	64.6	61.9	58.1	50.0	42.9	39.1	33.7	34.2
82.5°	36.9	38.0	38.6	39.1	37.5	33.7	27.7	22.8	20.6	17.9	17.4
85°	17.9	19.0	19.0	19.6	16.8	14.7	11.4	8.7	7.6	5.4	6.0
87.5°	4.3	4.9	4.9	4.3	3.8	2.7	1.6	0.5	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)