

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: P632553

Luminaire Tested: GWS-SA2C-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632553
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-SA2C-830-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6470.8 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63.2
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

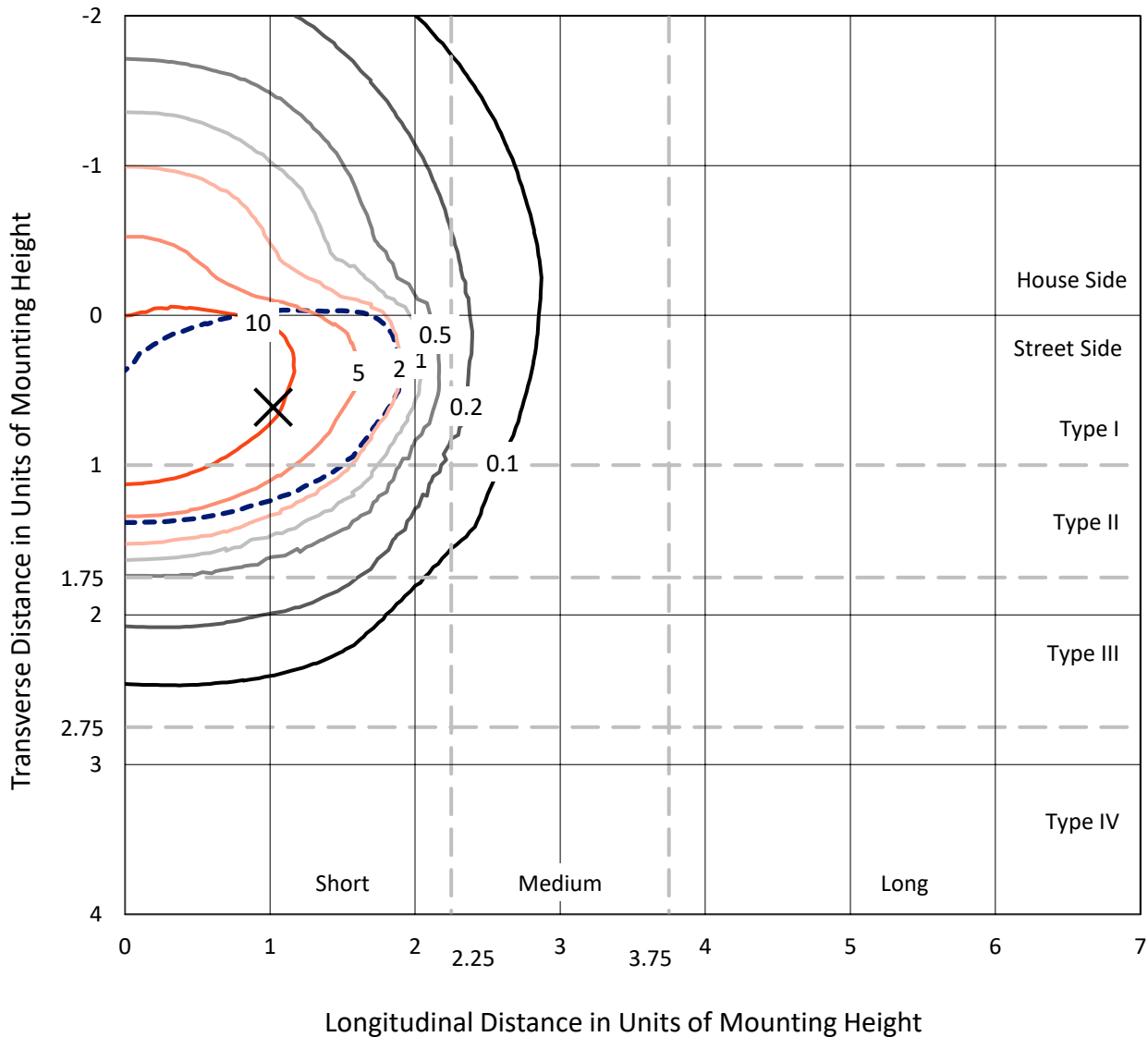


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Iso-Footcandle Lines of Horizontal Illumination

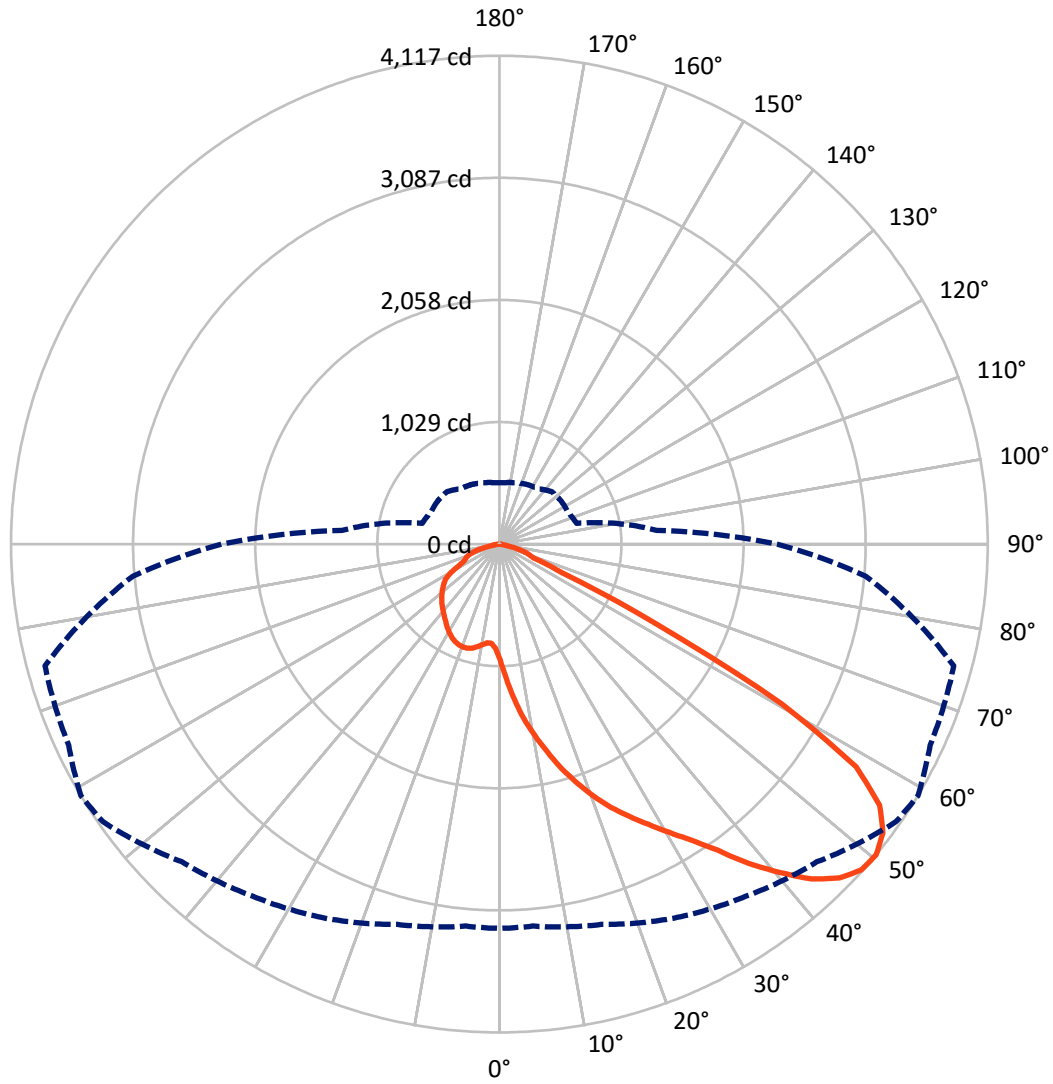
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.4 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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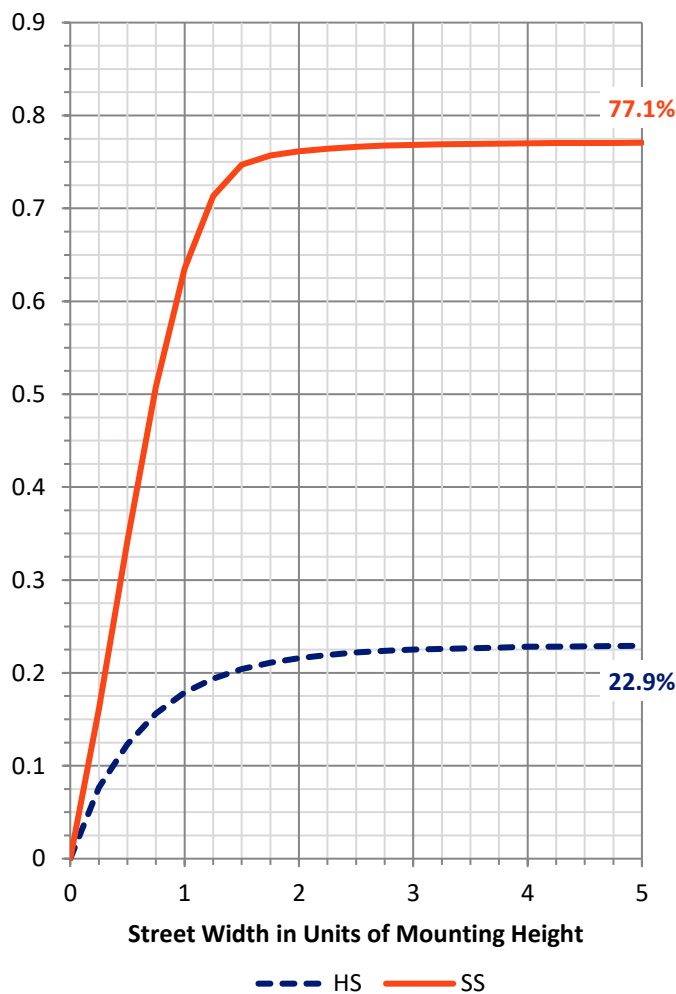
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1488.4	0.0	1488.4
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4982.4	0.0	4982.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	6470.8	0.0	6470.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.0	1.7
10°-20°	399.3	6.2
20°-30°	756.0	11.7
30°-40°	1253.7	19.4
40°-50°	1712.6	26.5
50°-60°	1554.6	24.0
60°-70°	517.7	8.0
70°-80°	151.0	2.3
80°-90°	15.9	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°	6470.8	100.0
0°-180°	6470.8	100.0

Coefficient of Utilization



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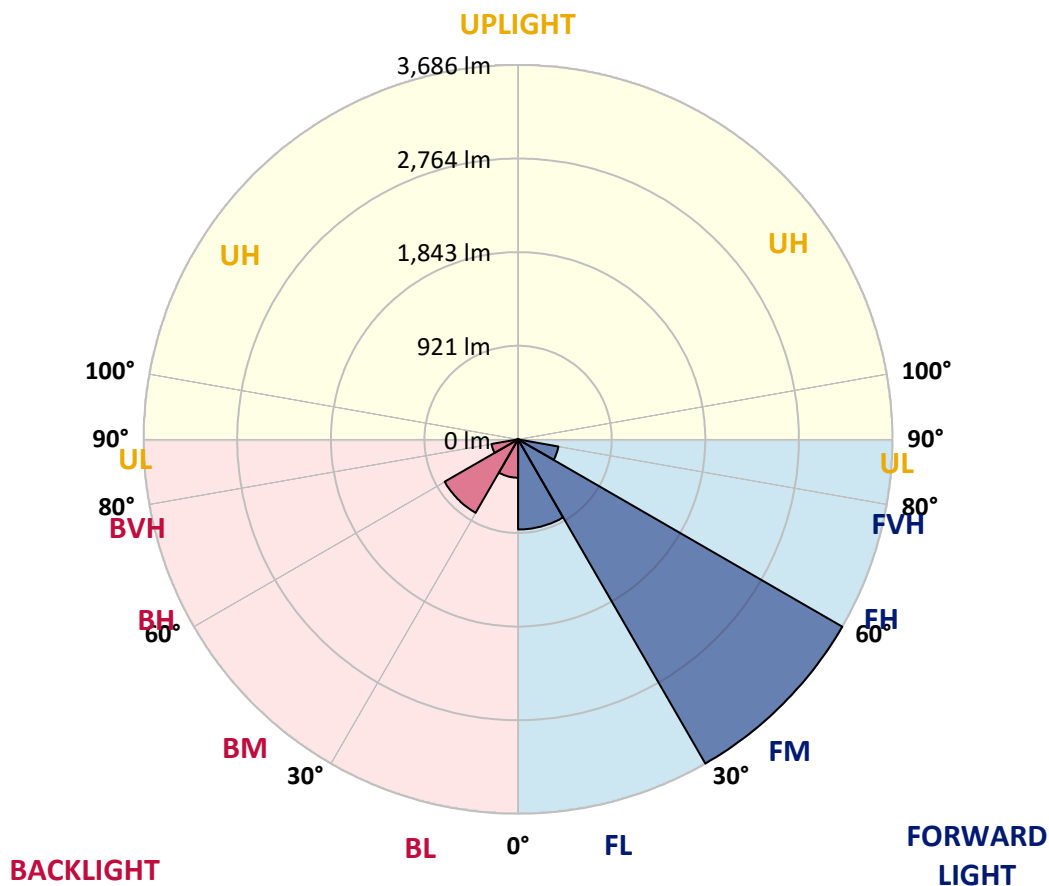
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	887.3	13.7			
FM (30°-60°)	3685.8	57.0			
FH (60°-80°)	403.0	6.2			G0/660
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	377.9	5.8	B1/500		
BM (30°-60°)	835.1	12.9	B1/1000		
BH (60°-80°)	265.7	4.1	B1/500		G1/500
BVH (80°-90°)	9.7	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°	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4
2.5°	1270.3	1279.8	1265.0	1266.1	1229.2	1212.3	1164.9	1136.9	1118.5	1066.8	1019.9
5°	1526.4	1515.4	1503.8	1496.9	1464.8	1419.4	1360.4	1313.5	1270.3	1169.1	1071.6
7.5°	1683.5	1677.7	1669.8	1665.6	1634.0	1586.5	1527.5	1487.4	1424.7	1287.7	1134.3
10°	1816.9	1810.0	1805.3	1808.4	1782.6	1752.0	1687.7	1641.9	1571.2	1413.1	1210.2
12.5°	1920.2	1923.8	1925.4	1942.3	1931.2	1912.8	1846.4	1797.9	1719.3	1545.4	1299.3
15°	2001.9	2000.8	2019.2	2051.4	2069.3	2057.7	2004.5	1963.9	1868.0	1675.6	1395.2
17.5°	2020.8	2021.9	2050.9	2107.3	2165.8	2194.2	2164.2	2115.7	2020.8	1804.2	1494.8
20°	2036.1	2038.2	2068.3	2132.6	2218.0	2297.5	2302.3	2267.5	2185.8	1943.4	1596.0
22.5°	2132.6	2137.3	2145.2	2185.8	2262.8	2363.4	2418.8	2411.4	2342.9	2089.4	1705.1
25°	2386.1	2371.9	2333.4	2321.8	2351.3	2433.0	2527.4	2541.6	2507.9	2250.1	1822.6
27.5°	2699.2	2683.9	2627.0	2566.9	2503.1	2531.6	2632.2	2674.9	2675.5	2427.2	1940.7
30°	2983.3	2971.2	2924.8	2838.9	2728.7	2687.6	2761.9	2819.4	2853.6	2631.7	2075.1
32.5°	3226.3	3215.2	3152.5	3082.4	2974.8	2892.1	2919.0	2974.3	3054.4	2896.3	2242.2
35°	3430.8	3419.7	3359.6	3289.0	3189.4	3139.8	3130.3	3168.3	3272.1	3172.5	2434.1
37.5°	3596.8	3585.7	3523.0	3456.6	3380.7	3383.9	3398.1	3416.5	3476.1	3468.2	2639.1
40°	3704.3	3692.7	3647.9	3600.5	3552.5	3590.5	3661.1	3639.0	3670.6	3707.0	2827.8
42.5°	3752.3	3737.5	3711.7	3701.2	3686.4	3745.4	3881.4	3859.3	3821.3	3866.1	2968.0
45°	3704.3	3691.7	3691.2	3723.3	3757.6	3833.5	4033.8	4015.8	3919.9	3943.1	3051.8
47.5°	3557.3	3546.2	3576.2	3660.6	3744.9	3855.6	4101.7	4104.9	3990.0	3975.3	3106.1
50°	3239.4	3232.1	3319.0	3478.7	3624.2	3786.6	4080.1	4116.5	4006.9	3965.2	3099.2
52.5°	2593.2	2627.5	2816.7	3083.4	3365.9	3665.3	4000.0	4047.5	3925.7	3899.4	3062.3
55°	1775.2	1791.0	1980.2	2369.8	2817.8	3402.8	3816.1	3889.3	3829.8	3888.3	3100.8
57.5°	919.2	931.9	1081.0	1426.8	1911.2	2689.2	3305.3	3545.7	3636.3	3944.2	3220.5
60°	377.4	387.9	449.6	616.7	964.0	1566.0	2378.7	2735.0	2948.0	3602.1	2859.9
62.5°	274.1	279.4	308.9	367.9	504.9	767.4	1346.2	1477.4	1627.1	2257.5	1815.8
65°	230.9	236.7	260.4	296.2	368.4	470.7	575.0	578.2	637.2	919.8	673.1
67.5°	193.4	198.7	219.8	250.4	297.8	334.2	308.9	309.4	308.3	333.6	322.6
70°	150.7	155.0	176.0	208.7	233.5	214.5	241.4	267.2	256.2	266.2	281.5
72.5°	110.2	114.9	133.4	158.1	151.8	152.9	195.5	221.9	215.6	226.6	240.9
75°	79.6	82.8	92.2	79.1	83.3	100.7	137.6	151.8	158.1	167.6	180.3
77.5°	25.8	25.8	29.0	36.4	45.3	55.9	70.1	75.9	85.4	95.9	104.9
80°	13.2	13.7	16.3	20.0	25.3	32.2	41.1	43.7	48.5	54.3	58.0
82.5°	6.3	6.9	7.9	10.0	13.2	16.9	22.7	25.3	28.5	32.2	34.8
85°	1.6	1.6	2.1	3.2	4.2	6.3	8.4	10.0	12.6	15.3	16.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.6	2.1	2.6	3.2	4.2
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°	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4	980.4
2.5°	998.8	969.3	931.4	899.2	869.7	847.0	827.5	818.0	809.1	802.7	804.9
5°	1026.2	975.6	905.0	856.0	825.9	810.7	800.1	794.8	793.8	789.6	788.0
7.5°	1066.3	994.1	899.7	850.2	830.2	822.2	816.4	813.3	814.9	810.7	809.1
10°	1115.8	1024.6	912.9	869.2	851.8	846.0	839.6	835.4	833.3	827.0	825.9
12.5°	1177.5	1062.6	936.6	893.4	876.0	866.0	857.6	850.2	845.4	837.5	835.4
15°	1243.9	1104.8	964.6	917.1	896.6	881.8	868.1	857.0	848.6	838.1	836.5
17.5°	1316.1	1149.0	987.8	933.5	907.1	887.6	867.6	851.2	839.6	825.9	824.4
20°	1391.5	1193.8	1005.1	941.4	907.6	881.3	854.4	832.8	818.0	804.3	803.3
22.5°	1469.5	1235.0	1015.7	939.3	899.2	866.5	834.4	810.1	792.7	776.4	775.3
25°	1548.0	1274.5	1018.3	930.8	882.3	844.4	812.2	783.8	764.3	745.8	743.7
27.5°	1627.6	1307.7	1012.0	914.0	859.7	818.6	786.4	758.5	738.4	720.0	716.8
30°	1712.5	1336.2	998.3	891.8	833.3	791.1	759.5	738.4	719.5	701.0	697.9
32.5°	1803.1	1360.9	978.8	864.9	802.7	763.7	740.5	721.6	702.6	686.3	683.1
35°	1911.2	1377.3	949.8	830.2	774.3	743.7	727.9	705.8	682.6	664.7	663.1
37.5°	2022.9	1389.9	915.0	796.9	749.5	732.1	718.9	688.9	659.9	638.3	635.7
40°	2131.0	1400.5	871.8	765.8	726.8	723.7	705.8	668.3	618.3	594.0	591.9
42.5°	2231.7	1403.6	826.5	732.6	706.3	704.7	684.7	626.7	588.2	572.9	570.8
45°	2300.7	1401.0	779.6	701.5	685.7	677.3	656.2	596.7	572.9	559.2	556.6
47.5°	2351.8	1387.3	726.8	668.9	662.5	650.9	605.6	577.7	555.5	541.8	539.2
50°	2342.9	1330.4	673.6	637.2	634.6	624.6	568.7	554.0	534.5	519.7	517.6
52.5°	2296.5	1222.3	619.3	602.5	607.7	588.2	542.4	525.5	508.6	491.8	488.1
55°	2308.1	1144.3	578.2	568.7	578.2	533.9	512.9	494.9	479.1	462.8	459.6
57.5°	2358.7	1067.3	534.5	532.4	542.4	492.3	474.9	452.2	429.6	416.4	416.4
60°	1980.8	778.0	457.5	462.8	485.4	458.6	443.3	420.1	395.3	383.7	383.7
62.5°	1171.2	488.1	379.5	373.7	387.9	404.8	413.2	394.3	364.7	349.5	350.0
65°	516.0	355.3	334.7	330.0	325.7	337.3	360.5	362.1	331.0	313.1	313.6
67.5°	317.8	321.5	313.1	309.4	305.7	303.6	301.5	302.5	294.1	277.8	277.2
70°	286.7	296.7	290.9	287.8	283.0	279.4	266.7	246.1	231.9	227.7	232.4
72.5°	246.7	260.4	257.2	255.6	249.8	240.9	224.0	204.0	187.1	176.6	178.7
75°	186.1	197.1	198.7	199.2	192.9	184.5	167.1	150.2	135.5	124.4	127.0
77.5°	107.0	113.3	114.9	116.5	111.7	108.6	97.0	84.9	77.0	65.4	68.5
80°	59.6	62.2	62.2	62.7	60.1	56.4	48.5	41.6	37.9	32.7	33.2
82.5°	35.8	36.9	37.4	37.9	36.4	32.7	26.9	22.1	20.0	17.4	16.9
85°	17.4	18.4	18.4	19.0	16.3	14.2	11.1	8.4	7.4	5.3	5.8
87.5°	4.2	4.7	4.7	4.2	3.7	2.6	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)