

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: P632341

Luminaire Tested: GWS-SA2C-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2C-740-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8114.4 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

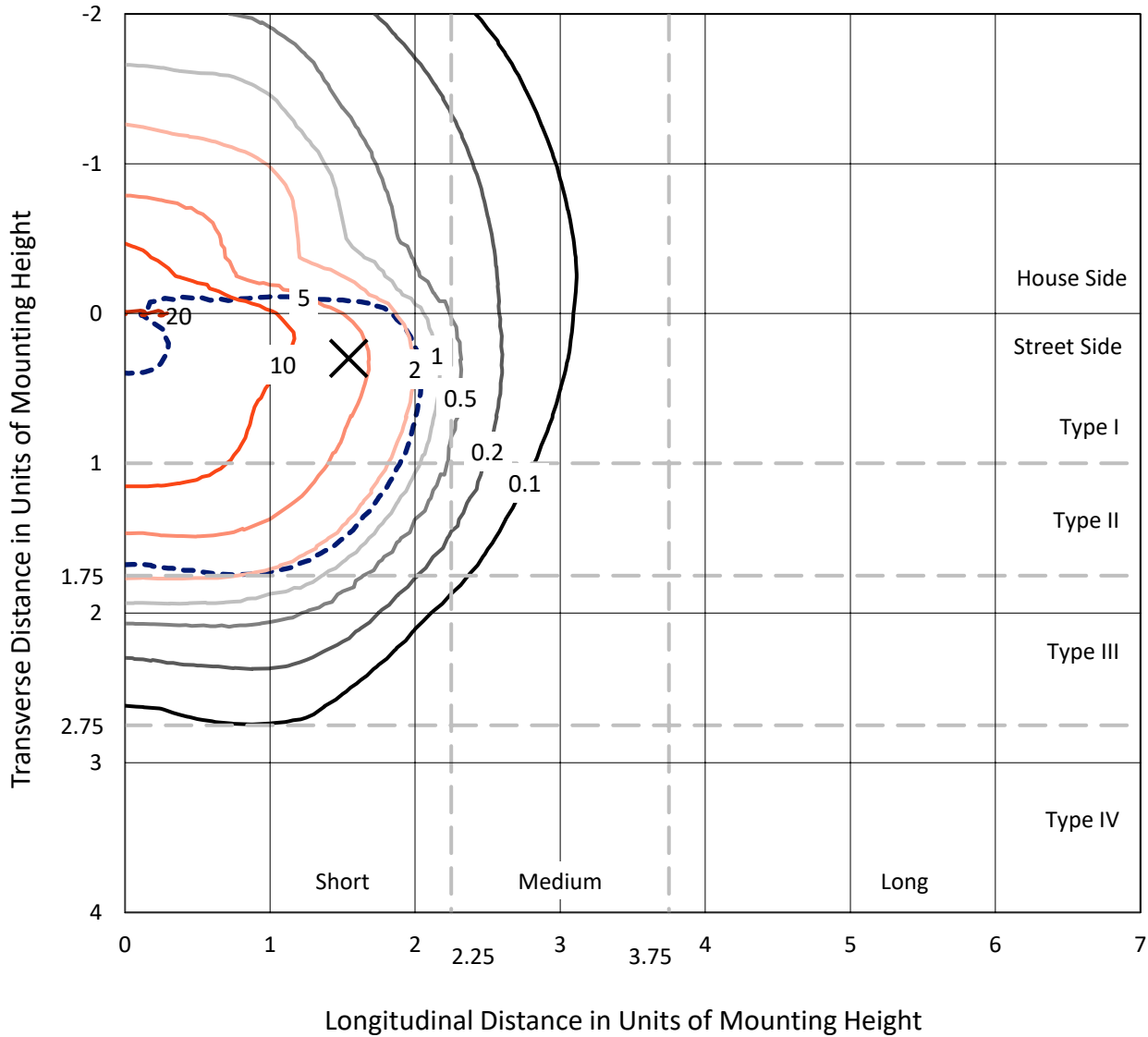
Input Watts (W): 63.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

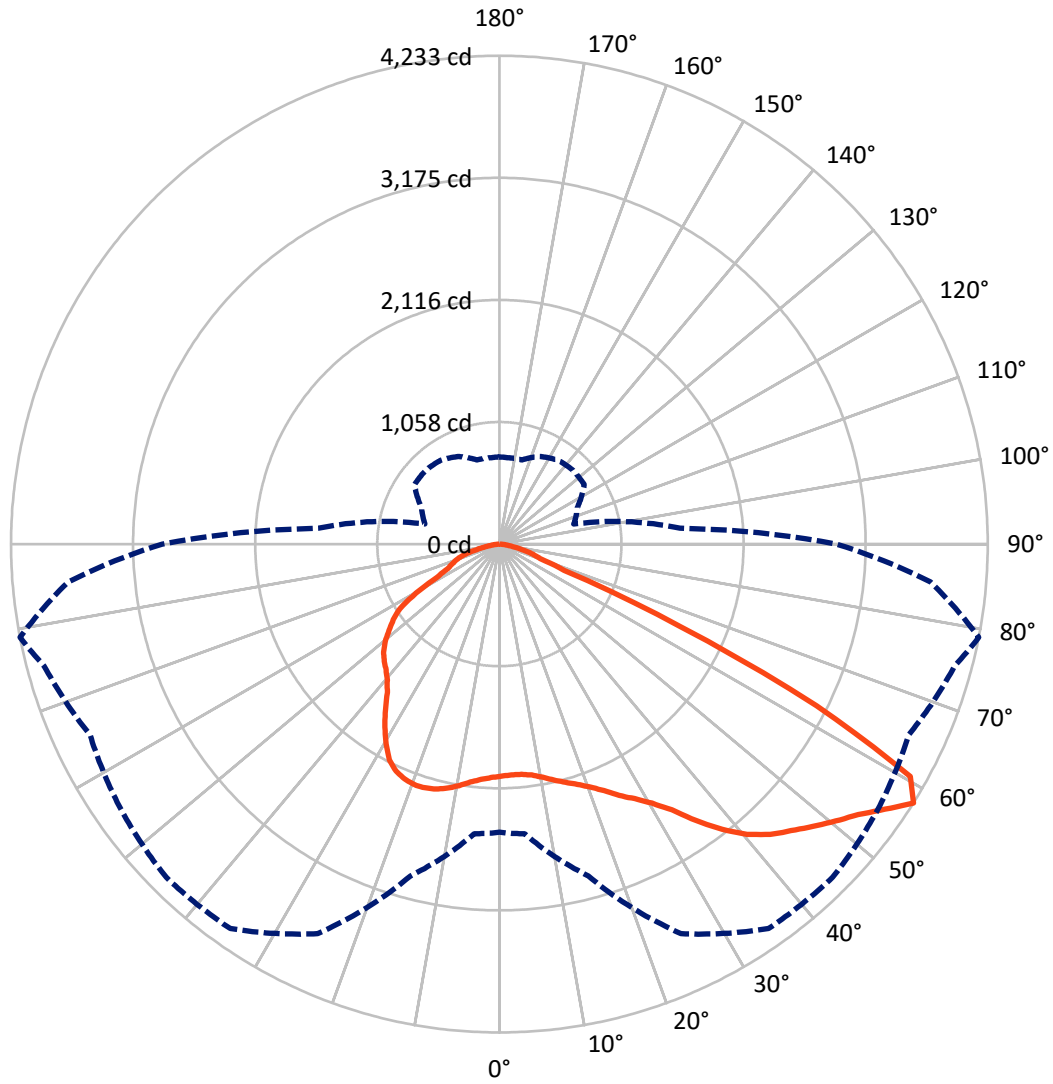
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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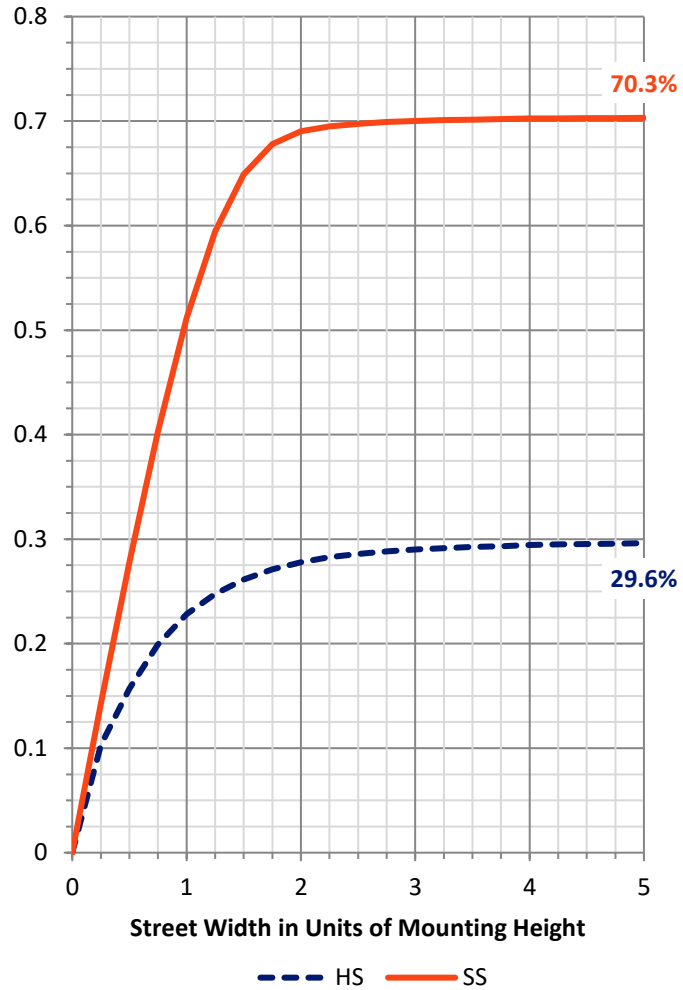
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2412.0	0.0	2412.0
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	5702.4	0.0	5702.4
	% Fixture	70.3	0.0	70.3
Total	Lumens	8114.4	0.0	8114.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.2	2.3
10°-20°	517.5	6.4
20°-30°	877.2	10.8
30°-40°	1342.7	16.5
40°-50°	1790.4	22.1
50°-60°	2067.8	25.5
60°-70°	1074.5	13.2
70°-80°	228.4	2.8
80°-90°	29.6	0.4
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°	8114.4	100.0
0°-180°	8114.4	100.0

Coefficient of Utilization



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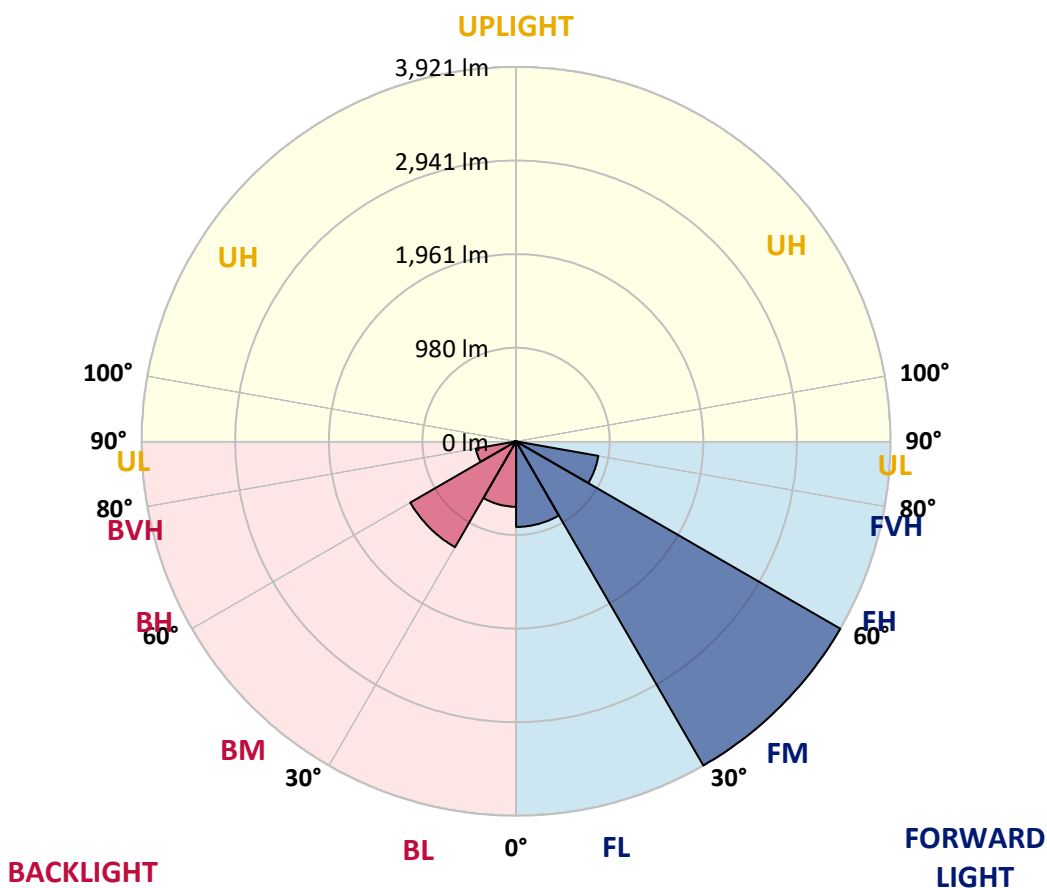
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.0	11.0			
FM (30°-60°)	3921.1	48.3			
FH (60°-80°)	874.9	10.8			G1/1800
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	685.0	8.4	B2/1000		
BM (30°-60°)	1279.8	15.8	B2/2500		
BH (60°-80°)	428.0	5.3	B1/500		G1/500
BVH (80°-90°)	19.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9
2.5°	1919.4	1915.4	1916.7	1922.0	1941.9	1956.5	1971.8	1985.7	1999.0	2003.0	2006.3
5°	1851.0	1843.7	1845.7	1854.4	1877.6	1902.1	1929.3	1962.5	1994.3	2005.0	2018.9
7.5°	1802.6	1801.3	1804.6	1817.9	1842.4	1865.6	1900.8	1947.9	2003.0	2020.9	2045.4
10°	1738.3	1735.6	1748.9	1776.1	1816.5	1853.7	1895.5	1951.2	2028.2	2054.7	2092.5
12.5°	1687.2	1685.8	1699.8	1737.6	1789.3	1848.4	1906.1	1968.5	2062.0	2098.5	2145.0
15°	1717.0	1711.1	1711.7	1738.3	1784.7	1854.4	1932.6	1999.7	2095.9	2142.3	2202.0
17.5°	1803.9	1793.3	1785.4	1790.0	1816.5	1888.9	1973.1	2041.5	2135.0	2189.4	2262.4
20°	1924.0	1918.1	1896.2	1881.6	1887.5	1951.2	2036.8	2100.5	2186.1	2247.1	2325.4
22.5°	2085.2	2070.6	2040.8	2017.6	1999.7	2049.4	2128.4	2183.4	2257.1	2320.8	2402.4
25°	2284.9	2263.7	2216.6	2180.1	2141.6	2192.7	2263.0	2304.8	2354.6	2413.7	2491.3
27.5°	2488.6	2470.7	2418.3	2369.2	2321.4	2353.3	2436.9	2460.8	2455.5	2498.6	2564.9
30°	2705.6	2683.0	2633.3	2580.2	2518.5	2539.0	2614.0	2626.0	2569.6	2605.4	2650.5
32.5°	2934.5	2912.6	2869.4	2807.7	2738.1	2746.0	2766.6	2777.9	2724.2	2744.7	2779.2
35°	3167.3	3146.8	3103.0	3041.9	2990.9	2942.4	2890.7	2935.8	2904.6	2944.4	2941.8
37.5°	3380.3	3359.7	3332.5	3285.4	3197.9	3102.3	2982.9	3038.6	3087.1	3137.5	3128.9
40°	3524.3	3510.3	3517.0	3509.7	3396.9	3207.8	3028.0	3089.1	3221.1	3307.3	3302.7
42.5°	3648.3	3634.4	3672.9	3700.8	3568.1	3305.3	3049.9	3108.3	3306.7	3441.3	3434.7
45°	3703.4	3699.4	3763.1	3851.4	3724.6	3408.8	3106.3	3148.1	3371.7	3544.2	3519.0
47.5°	3637.7	3651.7	3777.1	3926.3	3854.7	3531.6	3221.7	3232.4	3456.6	3655.6	3584.7
50°	3507.0	3537.5	3706.7	3928.3	3949.6	3670.2	3381.6	3355.1	3570.7	3774.4	3619.2
52.5°	3316.6	3348.5	3624.5	3913.1	4004.0	3830.8	3594.6	3556.8	3714.7	3893.2	3625.1
55°	2879.4	2922.5	3436.0	3878.6	4057.0	3976.8	3834.8	3757.8	3900.5	4056.4	3684.2
57.5°	2497.9	2520.5	2976.9	3725.3	4067.7	4084.2	4005.9	3914.4	4084.9	4232.9	3750.5
60°	1833.1	1838.4	2249.1	3082.4	3741.9	4021.9	3992.0	3856.0	3997.3	4091.5	3446.7
62.5°	1035.7	1036.3	1364.1	2057.4	2795.1	3278.1	3296.7	3176.6	3057.9	3085.7	2399.1
65°	388.8	425.3	623.0	1011.1	1611.5	1935.3	2012.3	2040.1	1842.4	1719.7	1286.4
67.5°	260.1	268.7	363.6	520.1	717.2	828.0	926.2	928.8	679.4	605.7	506.9
70°	198.4	207.0	285.9	372.2	363.6	335.7	362.9	353.0	364.9	374.9	385.5
72.5°	148.0	156.6	221.6	262.7	218.3	215.0	243.5	270.7	295.9	306.5	323.1
75°	98.2	104.8	149.3	140.7	120.7	142.6	177.8	205.0	219.6	232.2	244.8
77.5°	62.4	67.0	79.6	64.4	67.0	83.6	103.5	128.0	142.0	154.6	161.2
80°	28.5	27.9	27.2	30.5	37.8	49.1	62.4	77.0	87.6	92.9	96.9
82.5°	11.3	12.6	13.9	16.6	20.6	26.5	35.2	45.1	53.7	55.1	58.4
85°	4.6	5.3	6.0	7.3	9.3	11.9	14.6	20.6	25.9	27.9	29.9
87.5°	0.0	0.0	0.0	0.0	0.7	1.3	2.0	3.3	6.0	6.6	7.3
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°	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9	2010.9
2.5°	2024.2	2015.6	2030.2	2040.1	2049.4	2039.5	2036.1	2027.5	2026.2	2026.2	2030.8
5°	2042.8	2036.8	2052.1	2058.0	2057.4	2035.5	2022.2	2005.0	1996.3	1996.3	1997.7
7.5°	2076.0	2072.6	2081.3	2072.0	2050.7	2006.3	1962.5	1926.0	1901.5	1888.9	1892.8
10°	2131.0	2127.0	2119.7	2085.2	2024.2	1932.0	1842.4	1776.1	1736.3	1713.7	1715.0
12.5°	2184.8	2178.1	2152.3	2076.0	1950.6	1803.9	1686.5	1612.2	1568.4	1541.9	1535.9
15°	2243.8	2226.6	2170.8	2028.2	1830.5	1647.4	1524.6	1444.3	1397.2	1381.3	1380.7
17.5°	2300.2	2269.7	2168.8	1943.3	1686.5	1483.5	1360.1	1310.3	1302.4	1309.7	1311.7
20°	2357.3	2308.2	2146.9	1825.8	1515.3	1320.3	1256.6	1277.2	1307.0	1326.9	1331.6
22.5°	2416.3	2340.0	2097.2	1674.6	1334.9	1210.1	1236.7	1281.8	1319.0	1345.5	1348.1
25°	2482.7	2369.9	2022.9	1489.5	1190.2	1179.6	1232.0	1279.8	1319.6	1350.1	1355.4
27.5°	2520.5	2370.5	1918.7	1299.0	1123.9	1167.7	1220.8	1265.9	1305.7	1338.9	1344.8
30°	2557.6	2352.6	1753.5	1144.5	1104.7	1153.8	1201.5	1243.3	1281.1	1313.6	1320.9
32.5°	2610.0	2336.0	1563.1	1055.6	1093.4	1140.5	1179.6	1216.8	1246.0	1260.6	1264.5
35°	2675.1	2314.8	1360.7	1017.1	1086.1	1129.9	1164.4	1184.3	1146.5	1138.5	1147.1
37.5°	2765.9	2294.9	1159.1	1000.5	1081.4	1125.9	1156.4	1105.3	1058.9	1040.3	1046.9
40°	2864.1	2283.6	1022.4	987.2	1083.4	1129.9	1123.2	1047.6	980.6	941.4	940.1
42.5°	2947.7	2266.4	934.8	978.6	1088.7	1145.1	1078.1	996.5	897.0	873.8	874.4
45°	3004.1	2222.6	888.4	969.3	1093.4	1148.4	1056.9	926.2	855.2	840.6	839.9
47.5°	3027.4	2143.0	858.5	954.7	1092.7	1121.2	1013.8	897.0	826.0	822.0	824.7
50°	3012.1	2012.3	828.0	926.2	1076.8	1092.7	964.0	871.1	806.1	828.0	843.9
52.5°	2955.7	1843.1	791.5	887.0	1048.3	1060.2	938.8	855.2	791.5	820.7	833.3
55°	2941.1	1705.7	745.1	836.0	1005.8	1002.5	912.3	847.2	781.6	770.3	772.3
57.5°	2921.9	1571.7	668.1	744.4	898.3	903.6	887.0	837.9	755.7	752.4	755.7
60°	2538.4	1204.8	595.8	642.2	737.8	766.3	858.5	820.7	713.9	699.9	699.3
62.5°	1658.0	729.8	530.1	560.0	601.1	634.3	782.9	770.9	668.1	659.5	665.4
65°	891.7	520.1	482.3	500.2	522.8	548.0	648.9	686.7	603.7	573.2	573.9
67.5°	455.8	442.5	446.5	459.1	476.4	489.0	523.5	556.6	514.8	489.0	488.3
70°	390.1	400.7	406.7	414.0	425.3	423.3	426.6	432.6	429.3	416.7	416.0
72.5°	332.4	349.0	350.3	351.6	355.6	346.3	340.4	330.4	331.1	333.1	333.7
75°	252.8	268.7	272.7	270.7	274.7	262.7	254.8	244.8	232.9	230.9	232.2
77.5°	164.5	177.1	183.1	181.8	183.8	174.5	170.5	159.9	146.0	140.7	140.7
80°	99.5	106.8	111.5	112.8	114.8	108.1	101.5	92.2	86.2	80.3	80.3
82.5°	60.4	65.0	68.3	68.3	70.3	63.0	57.7	51.1	48.4	43.1	43.1
85°	30.5	33.8	35.2	34.5	33.2	27.2	25.2	21.9	20.6	17.9	17.9
87.5°	7.3	9.3	9.3	6.6	6.6	3.3	2.0	0.7	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)