

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: P634321

Luminaire Tested: GWS-SA3B-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634321  
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-SA3B-740-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

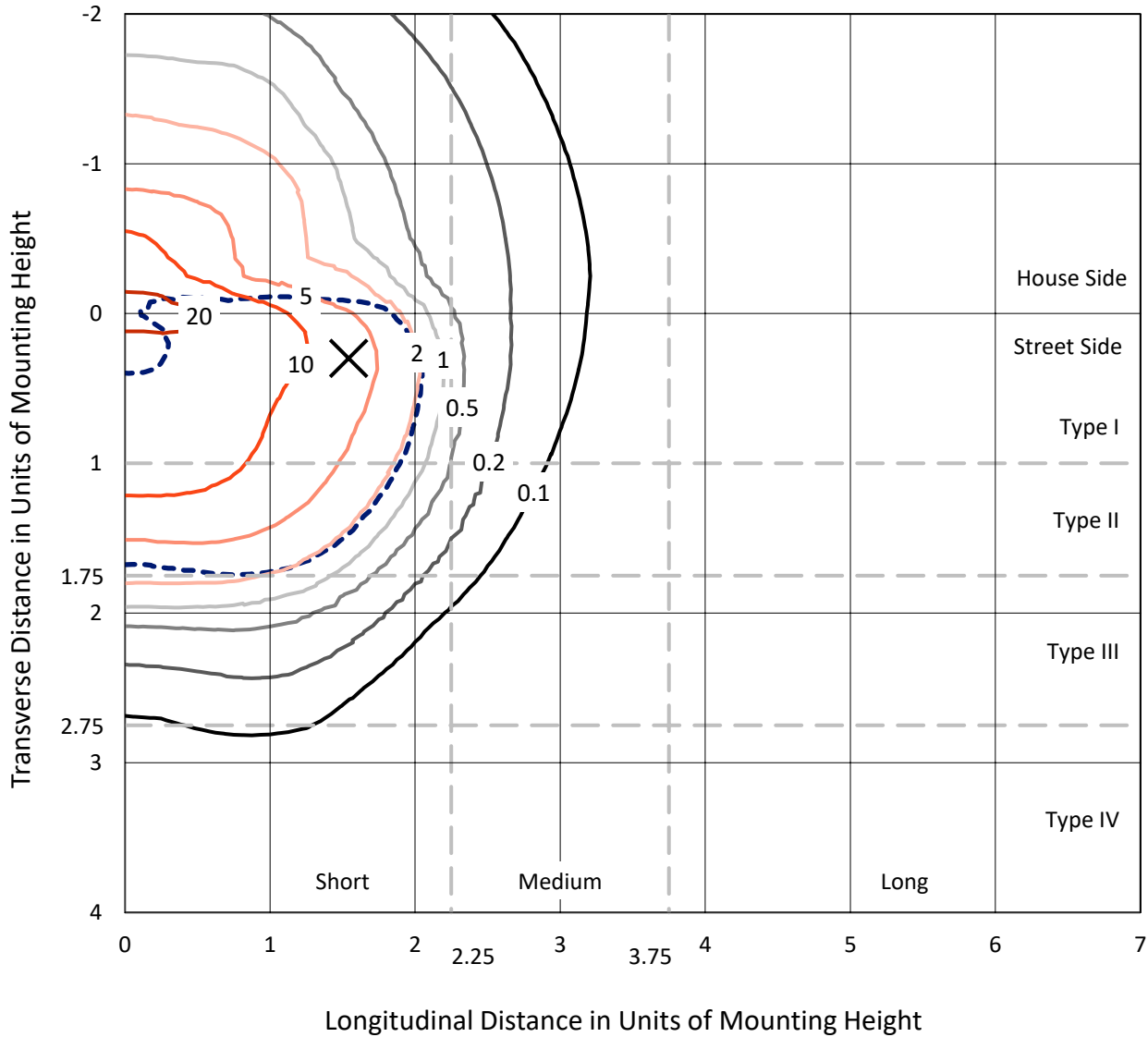
Lumens per Lamp: N/A  
Luminaire Lumens: 9119.3 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 68.3  
Input Voltage (V): 120  
Input Current (Ain): 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

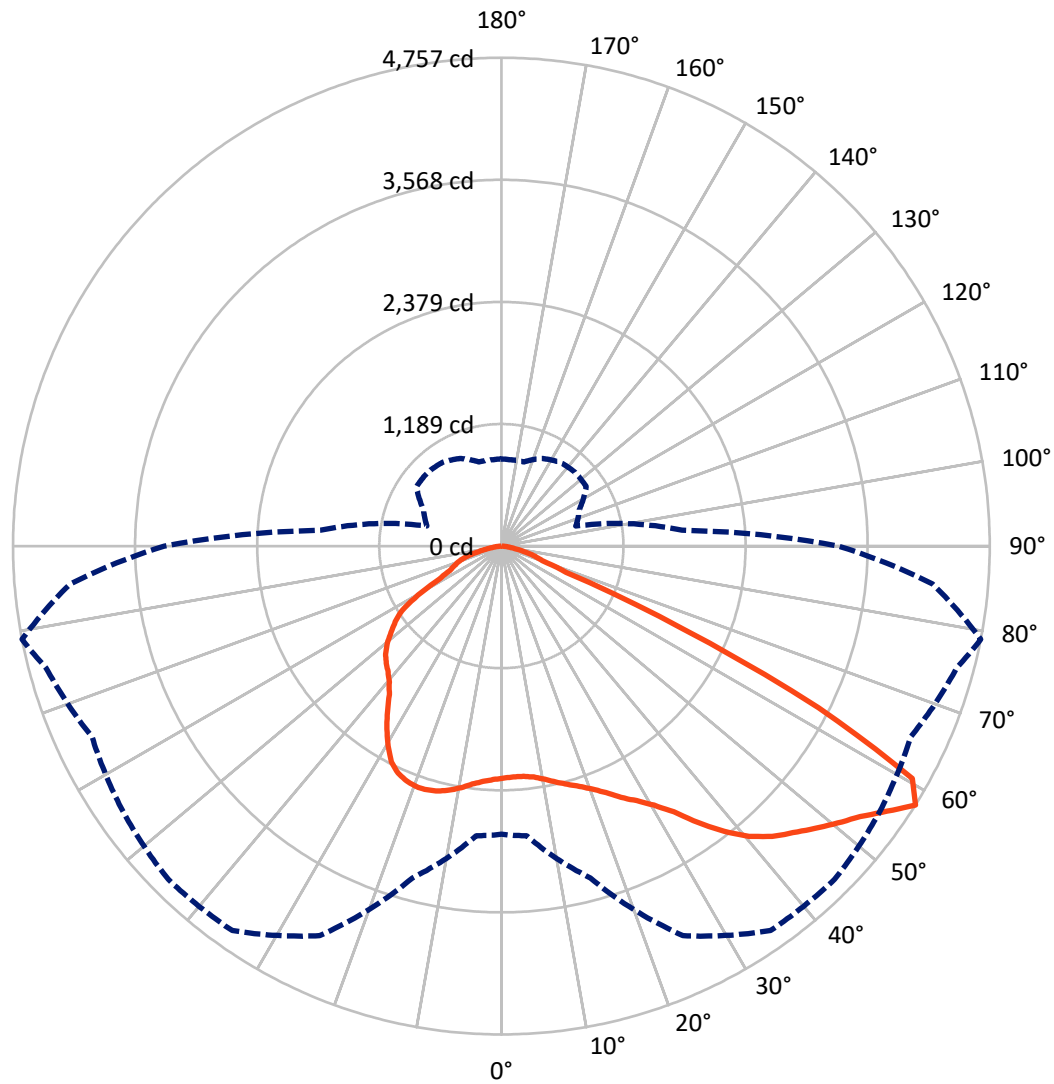
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 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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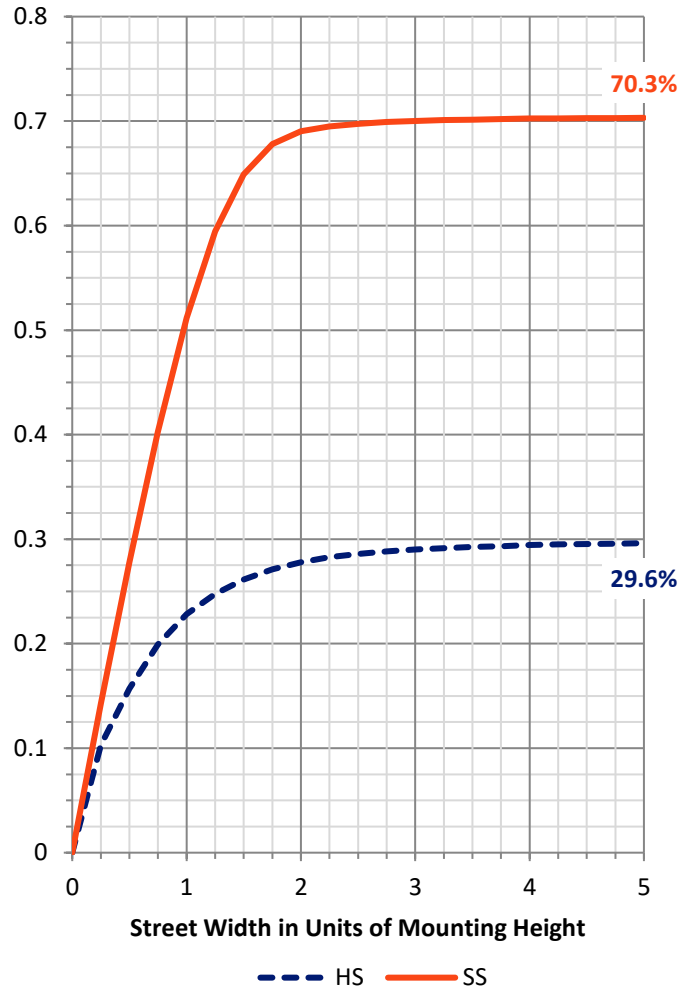
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2710.7	0.0	2710.7
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	6408.6	0.0	6408.6
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	9119.3	0.0	9119.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	209.3	2.3
10°-20°	581.6	6.4
20°-30°	985.9	10.8
30°-40°	1509.0	16.5
40°-50°	2012.1	22.1
50°-60°	2323.9	25.5
60°-70°	1207.6	13.2
70°-80°	256.7	2.8
80°-90°	33.2	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°	9119.3	100.0
0°-180°	9119.3	100.0

**Coefficient of Utilization**



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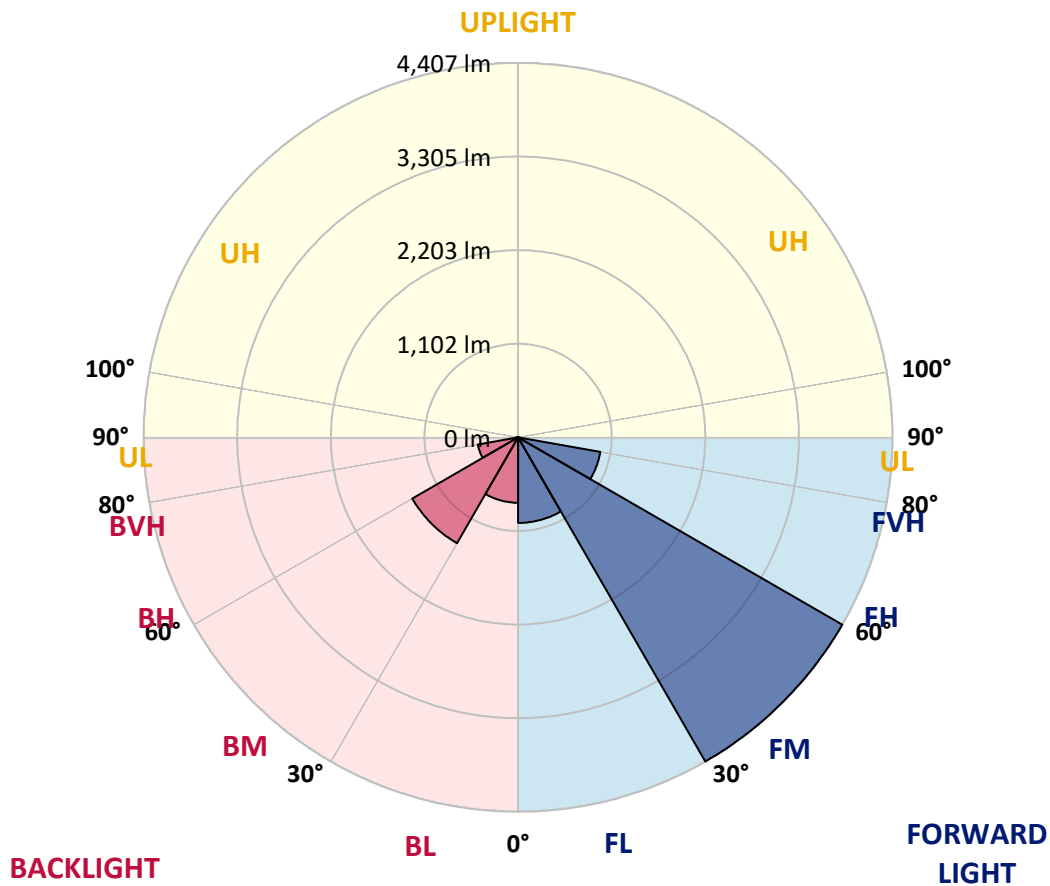
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.0	11.0			
FM (30°-60°)	4406.7	48.3			
FH (60°-80°)	983.3	10.8			G1/1800
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	769.8	8.4	B2/1000		
BM (30°-60°)	1438.3	15.8	B2/2500		
BH (60°-80°)	481.0	5.3	B1/500		G1/500
BVH (80°-90°)	21.7	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°	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0
2.5°	2157.1	2152.6	2154.1	2160.1	2182.4	2198.8	2216.0	2231.6	2246.6	2251.0	2254.8
5°	2080.3	2072.1	2074.3	2084.0	2110.1	2137.7	2168.3	2205.5	2241.3	2253.3	2268.9
7.5°	2025.8	2024.4	2028.1	2043.0	2070.6	2096.7	2136.2	2189.1	2251.0	2271.2	2298.7
10°	1953.5	1950.5	1965.5	1996.0	2041.5	2083.3	2130.2	2192.9	2279.4	2309.2	2351.7
12.5°	1896.1	1894.6	1910.3	1952.8	2010.9	2077.3	2142.2	2212.3	2317.4	2358.4	2410.6
15°	1929.7	1923.0	1923.7	1953.5	2005.7	2084.0	2172.0	2247.3	2355.4	2407.6	2474.7
17.5°	2027.3	2015.4	2006.5	2011.7	2041.5	2122.8	2217.5	2294.3	2399.4	2460.5	2542.6
20°	2162.3	2155.6	2131.0	2114.6	2121.3	2192.9	2289.1	2360.6	2456.8	2525.4	2613.4
22.5°	2343.5	2327.1	2293.5	2267.4	2247.3	2303.2	2391.9	2453.8	2536.6	2608.2	2699.9
25°	2567.9	2544.1	2491.1	2450.1	2406.9	2464.3	2543.3	2590.3	2646.2	2712.6	2799.8
27.5°	2796.8	2776.7	2717.8	2662.6	2608.9	2644.7	2738.7	2765.5	2759.5	2808.0	2882.6
30°	3040.6	3015.3	2959.4	2899.7	2830.4	2853.5	2937.7	2951.2	2887.8	2928.0	2978.8
32.5°	3297.9	3273.3	3224.8	3155.5	3077.2	3086.1	3109.2	3121.9	3061.5	3084.6	3123.4
35°	3559.6	3536.5	3487.3	3418.7	3361.3	3306.8	3248.7	3299.4	3264.3	3309.1	3306.1
37.5°	3798.9	3775.8	3745.2	3692.3	3593.9	3486.5	3352.3	3414.9	3469.4	3526.0	3516.3
40°	3960.7	3945.1	3952.5	3944.3	3817.6	3605.1	3403.0	3471.6	3620.0	3716.9	3711.7
42.5°	4100.2	4084.5	4127.8	4159.1	4009.9	3714.7	3427.6	3493.2	3716.2	3867.5	3860.1
45°	4162.0	4157.6	4229.2	4328.3	4185.9	3831.0	3491.0	3538.0	3789.2	3983.1	3954.8
47.5°	4088.2	4103.9	4244.8	4412.6	4332.1	3968.9	3620.7	3632.7	3884.7	4108.4	4028.6
50°	3941.3	3975.6	4165.8	4414.8	4438.7	4124.8	3800.4	3770.6	4012.9	4241.8	4067.4
52.5°	3727.4	3763.1	4073.3	4397.7	4499.8	4305.2	4039.8	3997.3	4174.7	4375.3	4074.1
55°	3236.0	3284.5	3861.6	4358.9	4559.5	4469.2	4309.7	4223.2	4383.5	4558.7	4140.4
57.5°	2807.3	2832.6	3345.6	4186.7	4571.4	4590.0	4502.1	4399.2	4590.8	4757.1	4215.0
60°	2060.1	2066.1	2527.7	3464.1	4205.3	4519.9	4486.4	4333.5	4492.4	4598.2	3873.5
62.5°	1163.9	1164.7	1533.0	2312.2	3141.3	3684.1	3705.0	3570.0	3436.6	3467.9	2696.2
65°	436.9	477.9	700.1	1136.3	1811.1	2175.0	2261.5	2292.8	2070.6	1932.6	1445.8
67.5°	292.3	302.0	408.6	584.6	806.0	930.5	1040.9	1043.9	763.5	680.8	569.7
70°	222.9	232.6	321.4	418.3	408.6	377.3	407.9	396.7	410.1	421.3	433.2
72.5°	166.3	176.0	249.0	295.3	245.3	241.6	273.6	304.2	332.5	344.5	363.1
75°	110.4	117.8	167.8	158.1	135.7	160.3	199.8	230.4	246.8	261.0	275.1
77.5°	70.1	75.3	89.5	72.3	75.3	93.9	116.3	143.9	159.6	173.7	181.2
80°	32.1	31.3	30.6	34.3	42.5	55.2	70.1	86.5	98.4	104.4	108.9
82.5°	12.7	14.2	15.7	18.6	23.1	29.8	39.5	50.7	60.4	61.9	65.6
85°	5.2	6.0	6.7	8.2	10.4	13.4	16.4	23.1	29.1	31.3	33.6
87.5°	0.0	0.0	0.0	0.0	0.7	1.5	2.2	3.7	6.7	7.5	8.2
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°	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0
2.5°	2274.9	2265.2	2281.6	2292.8	2303.2	2292.0	2288.3	2278.6	2277.1	2277.1	2282.3
5°	2295.8	2289.1	2306.2	2312.9	2312.2	2287.6	2272.6	2253.3	2243.6	2243.6	2245.1
7.5°	2333.0	2329.3	2339.0	2328.6	2304.7	2254.8	2205.5	2164.5	2136.9	2122.8	2127.3
10°	2394.9	2390.5	2382.3	2343.5	2274.9	2171.2	2070.6	1996.0	1951.3	1925.9	1927.4
12.5°	2455.3	2447.9	2418.8	2333.0	2192.1	2027.3	1895.4	1811.9	1762.6	1732.8	1726.1
15°	2521.7	2502.3	2439.7	2279.4	2057.2	1851.4	1713.4	1623.2	1570.3	1552.4	1551.6
17.5°	2585.1	2550.8	2437.4	2183.9	1895.4	1667.2	1528.5	1472.6	1463.7	1471.9	1474.1
20°	2649.2	2594.0	2412.8	2051.9	1703.0	1483.8	1412.2	1435.3	1468.9	1491.2	1496.5
22.5°	2715.5	2629.8	2356.9	1881.9	1500.2	1360.0	1389.8	1440.5	1482.3	1512.1	1515.1
25°	2790.1	2663.4	2273.4	1673.9	1337.6	1325.7	1384.6	1438.3	1483.0	1517.3	1523.3
27.5°	2832.6	2664.1	2156.3	1459.9	1263.1	1312.3	1371.9	1422.6	1467.4	1504.7	1511.4
30°	2874.4	2644.0	1970.7	1286.2	1241.5	1296.6	1350.3	1397.3	1439.8	1476.3	1484.5
32.5°	2933.3	2625.3	1756.7	1186.3	1228.8	1281.7	1325.7	1367.5	1400.3	1416.7	1421.2
35°	3006.3	2601.5	1529.3	1143.0	1220.6	1269.8	1308.6	1330.9	1288.4	1279.5	1289.2
37.5°	3108.5	2579.1	1302.6	1124.4	1215.4	1265.3	1299.6	1242.2	1190.0	1169.1	1176.6
40°	3218.8	2566.4	1149.0	1109.5	1217.6	1269.8	1262.3	1177.3	1102.0	1058.0	1056.5
42.5°	3312.8	2547.0	1050.6	1099.8	1223.6	1286.9	1211.6	1119.9	1008.1	982.0	982.7
45°	3376.2	2497.8	998.4	1089.4	1228.8	1290.7	1187.8	1040.9	961.1	944.7	944.0
47.5°	3402.3	2408.4	964.8	1072.9	1228.0	1260.1	1139.3	1008.1	928.3	923.8	926.8
50°	3385.1	2261.5	930.5	1040.9	1210.1	1228.0	1083.4	979.0	905.9	930.5	948.4
52.5°	3321.7	2071.3	889.5	996.9	1178.1	1191.5	1055.1	961.1	889.5	922.3	936.5
55°	3305.3	1917.0	837.3	939.5	1130.4	1126.6	1025.2	952.2	878.3	865.7	867.9
57.5°	3283.7	1766.4	750.8	836.6	1009.6	1015.5	996.9	941.7	849.3	845.5	849.3
60°	2852.7	1354.0	669.6	721.8	829.1	861.2	964.8	922.3	802.3	786.6	785.9
62.5°	1863.3	820.2	595.8	629.3	675.5	712.8	879.8	866.4	750.8	741.1	747.9
65°	1002.1	584.6	542.1	562.2	587.5	615.9	729.2	771.7	678.5	644.2	645.0
67.5°	512.2	497.3	501.8	516.0	535.4	549.5	588.3	625.6	578.6	549.5	548.8
70°	438.4	450.4	457.1	465.3	477.9	475.7	479.4	486.1	482.4	468.2	467.5
72.5°	373.6	392.2	393.7	395.2	399.7	389.2	382.5	371.3	372.1	374.3	375.0
75°	284.1	302.0	306.4	304.2	308.7	295.3	286.3	275.1	261.7	259.5	261.0
77.5°	184.9	199.1	205.8	204.3	206.5	196.1	191.6	179.7	164.0	158.1	158.1
80°	111.8	120.0	125.3	126.8	129.0	121.5	114.1	103.6	96.9	90.2	90.2
82.5°	67.9	73.1	76.8	76.8	79.0	70.8	64.9	57.4	54.4	48.5	48.5
85°	34.3	38.0	39.5	38.8	37.3	30.6	28.3	24.6	23.1	20.1	20.1
87.5°	8.2	10.4	10.4	7.5	7.5	3.7	2.2	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)