

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: P633576

Luminaire Tested: GWS-SA2F-722-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-722-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

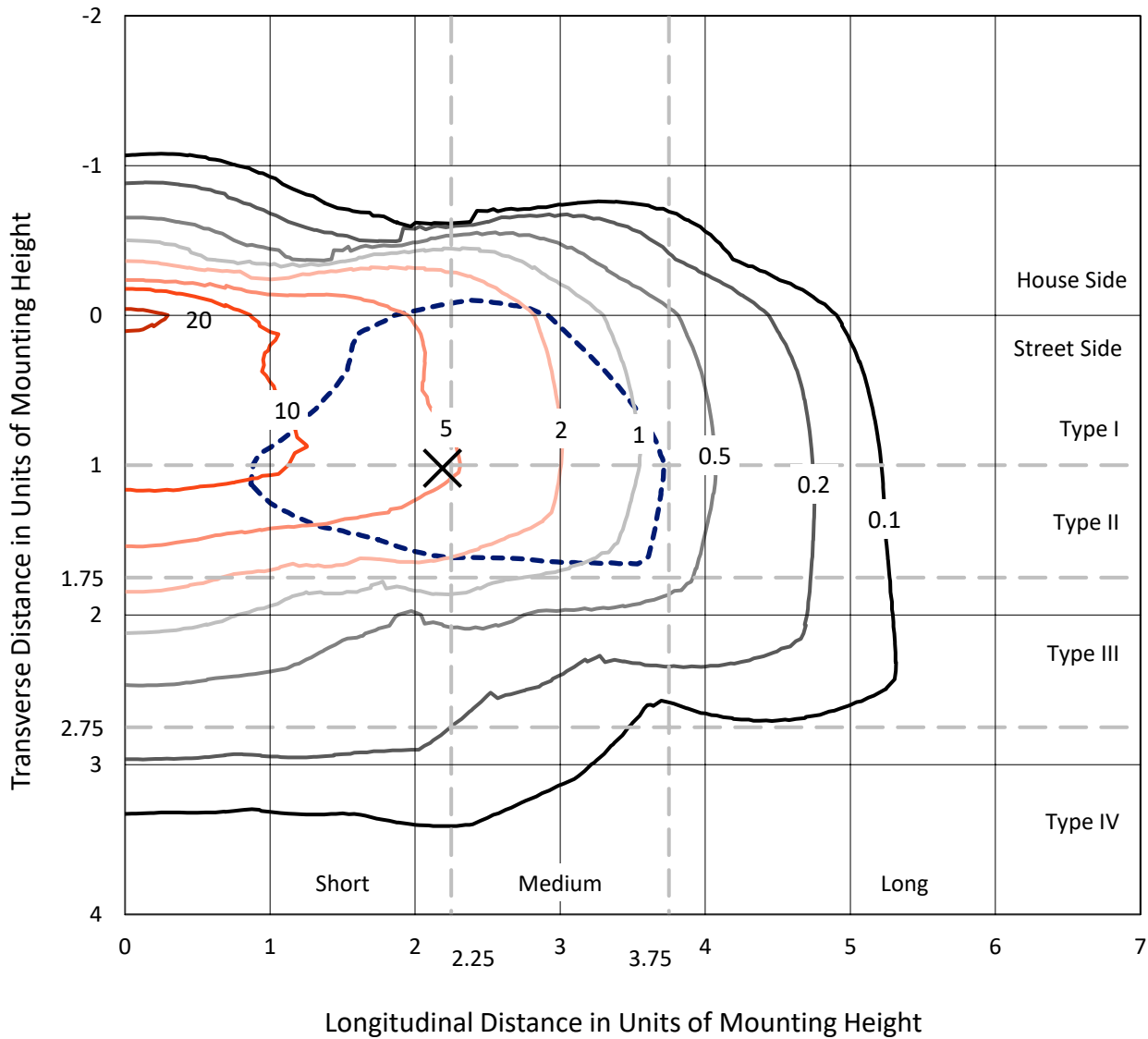
Lumens per Lamp: N/A  
Luminaire Lumens: 9472.6 lumens  
Efficiency: N/A  
Efficacy: 76.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P633576  
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### Iso-Footcandle Lines of Horizontal Illumination

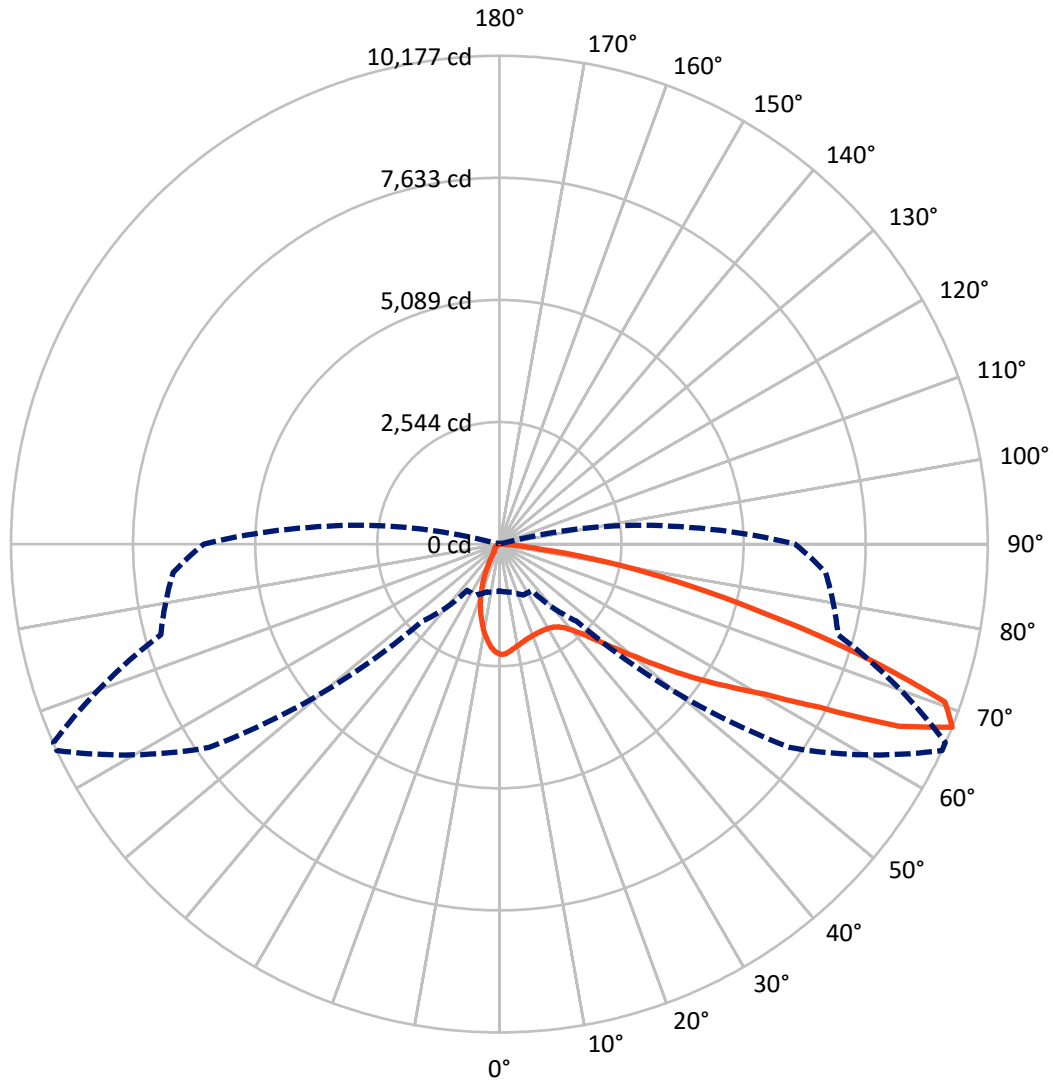
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23 fc  
 Type II - Short - N/A

REPORT NUMBER: P633576  
CATALOG NUMBER: GWS-SA2F-722-U-SL2-W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GWS-SA2F-722-U-SL2-W-HSS

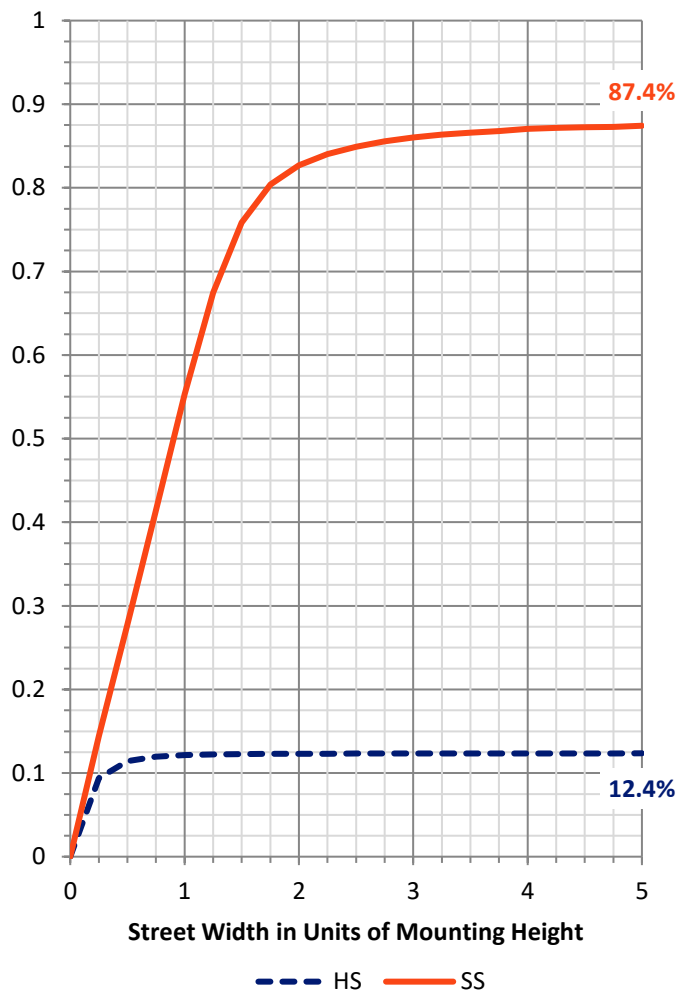
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1182.8	0.0	1182.8
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	8289.8	0.0	8289.8
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	9472.6	0.0	9472.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.8	2.0
10°-20°	428.9	4.5
20°-30°	612.9	6.5
30°-40°	891.7	9.4
40°-50°	1396.6	14.7
50°-60°	2178.7	23.0
60°-70°	2393.2	25.3
70°-80°	1273.7	13.4
80°-90°	106.0	1.1
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°	9472.6	100.0
0°-180°	9472.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P633576

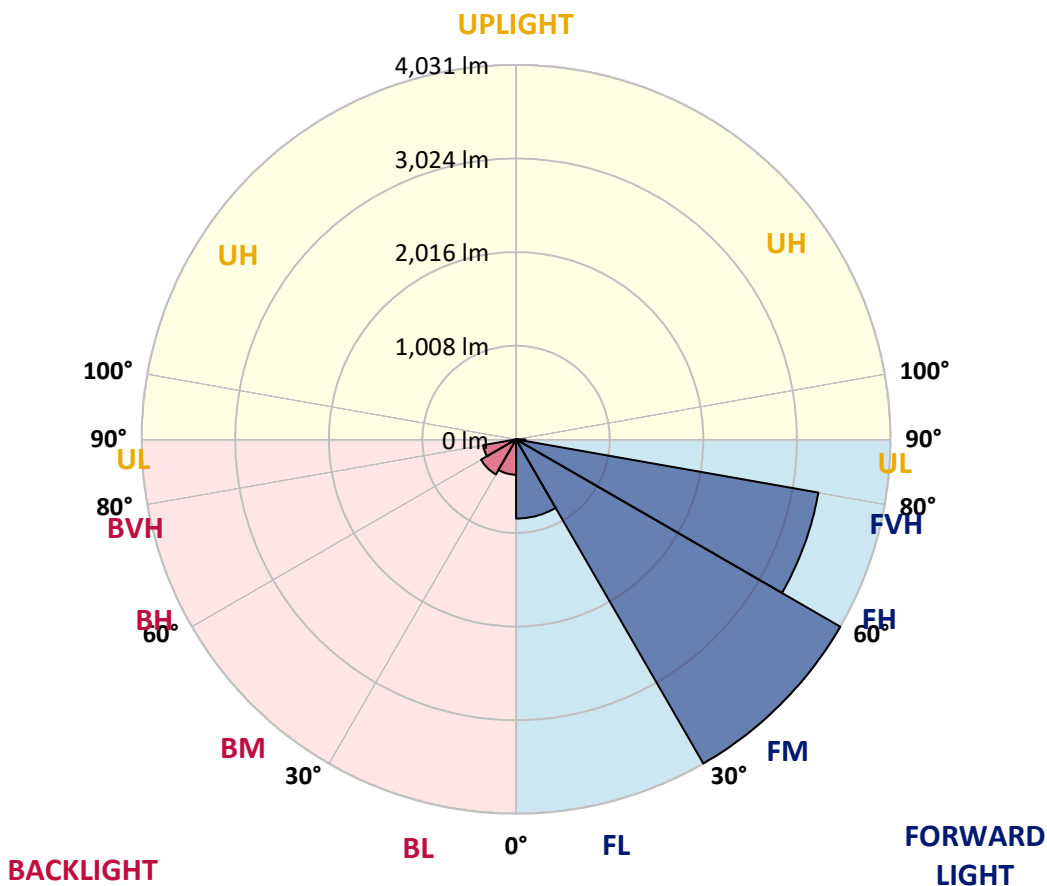
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.5	9.0			
FM (30°-60°)	4031.3	42.6			
FH (60°-80°)	3305.6	34.9			G2/5000
FVH (80°-90°)	100.4	1.1			G2/225
BL (0°-30°)	380.2	4.0	B1/500		
BM (30°-60°)	435.7	4.6	B1/1000		
BH (60°-80°)	361.3	3.8	B1/500		G1/500
BVH (80°-90°)	5.7	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-G2**

Type II Short





REPORT NUMBER: P633576

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4
2.5°	2217.7	2224.6	2215.2	2238.3	2242.6	2268.3	2282.8	2293.1	2292.3	2305.1	2305.1
5°	2087.5	2094.4	2089.2	2114.1	2133.8	2174.1	2207.5	2246.0	2247.7	2287.1	2301.7
7.5°	1977.0	1977.9	1977.9	2008.7	2034.4	2084.1	2133.8	2192.9	2199.8	2260.6	2299.1
10°	1886.2	1888.8	1889.7	1924.8	1953.1	2013.0	2076.4	2147.5	2155.2	2237.4	2297.4
12.5°	1823.7	1824.6	1828.0	1864.8	1895.7	1958.2	2022.4	2103.8	2114.1	2210.9	2289.7
15°	1793.7	1792.0	1793.7	1824.6	1855.4	1915.4	1981.3	2068.7	2079.8	2188.6	2290.6
17.5°	1792.0	1789.4	1787.7	1810.9	1830.6	1883.7	1950.5	2045.6	2057.6	2178.3	2300.0
20°	1816.9	1815.1	1806.6	1816.9	1821.1	1864.8	1930.8	2027.6	2039.6	2176.6	2320.5
22.5°	1882.0	1877.7	1864.8	1855.4	1832.3	1858.0	1917.1	2014.7	2028.4	2180.9	2347.1
25°	1978.7	1977.0	1960.8	1937.6	1878.5	1868.2	1917.9	2014.7	2027.6	2186.0	2375.4
27.5°	2124.4	2114.1	2093.5	2053.3	1968.5	1908.5	1935.1	2019.9	2032.7	2192.9	2398.5
30°	2272.6	2271.7	2264.9	2223.7	2097.8	1985.6	1971.0	2033.6	2045.6	2198.9	2419.9
32.5°	2425.9	2428.5	2445.6	2413.9	2276.0	2100.4	2036.1	2061.8	2070.4	2210.9	2438.7
35°	2571.5	2576.7	2622.1	2633.2	2492.7	2274.3	2142.4	2118.4	2119.2	2237.4	2463.6
37.5°	2711.1	2728.3	2801.1	2855.1	2762.5	2485.0	2295.7	2214.3	2207.5	2290.6	2501.3
40°	2869.6	2902.2	2993.8	3085.5	3056.4	2763.4	2504.7	2361.6	2347.1	2388.2	2568.9
42.5°	3045.2	3080.3	3202.0	3330.5	3344.2	3100.0	2766.0	2576.7	2551.8	2552.7	2695.7
45°	3233.7	3280.8	3422.1	3607.1	3690.2	3475.2	3088.0	2867.0	2842.2	2805.4	2899.6
47.5°	3481.2	3522.3	3658.5	3871.8	4031.2	3877.8	3510.4	3240.5	3195.1	3141.2	3216.5
50°	3694.5	3730.5	3847.9	4115.1	4446.6	4396.9	3989.2	3707.4	3663.7	3572.0	3634.6
52.5°	3741.6	3769.9	3877.8	4178.5	4764.4	5052.2	4576.0	4271.9	4241.0	4071.4	4095.4
55°	3530.1	3572.9	3669.7	4003.8	4847.5	5693.0	5337.5	4908.3	4844.1	4573.4	4616.2
57.5°	2995.5	3071.8	3162.6	3596.9	4622.2	6033.9	6401.4	5582.5	5524.2	5056.5	5057.4
60°	2195.5	2257.1	2318.0	2715.4	4087.7	6010.8	7366.8	6339.7	6233.5	5451.4	5436.8
62.5°	1596.7	1628.4	1627.5	1768.9	2807.1	5615.0	7873.9	7480.7	7233.1	5873.7	5790.6
65°	1255.8	1254.9	1291.8	1338.0	1567.6	4334.4	7936.4	9146.8	8879.5	6439.9	6266.9
67.5°	977.4	996.2	1033.1	1169.3	1177.8	2268.3	7386.5	10177.3	10172.1	7304.2	6824.5
70°	753.8	779.5	831.8	1030.5	1087.9	1269.5	5526.8	9850.9	9934.0	7690.6	6429.6
72.5°	484.0	482.3	559.4	832.6	1045.1	1057.9	3056.4	7825.1	7919.3	6965.9	5198.7
75°	270.7	272.4	316.1	509.7	974.0	995.4	1513.6	5579.9	5654.4	5430.9	3994.3
77.5°	106.2	109.6	148.2	268.1	642.5	889.2	899.4	3805.0	3816.2	3365.6	2449.9
80°	42.8	45.4	75.4	166.2	391.5	598.8	642.5	2241.7	2196.3	1302.9	712.7
82.5°	12.8	13.7	30.0	94.2	204.7	425.7	433.4	860.0	812.1	280.1	181.6
85°	0.9	0.9	6.9	29.1	72.8	107.1	288.7	280.1	248.4	70.2	80.5
87.5°	0.0	0.0	0.9	0.9	1.7	3.4	30.8	51.4	52.3	12.8	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633576  
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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4	2297.4
2.5°	2305.1	2274.3	2271.7	2247.7	2223.7	2193.8	2158.6	2132.9	2114.9	2083.3	2077.3
5°	2301.7	2260.6	2222.0	2153.5	2077.3	1995.0	1923.1	1856.3	1814.3	1786.0	1774.0
7.5°	2294.8	2242.6	2153.5	2024.1	1896.5	1752.6	1640.4	1537.6	1467.4	1426.2	1408.3
10°	2289.7	2219.5	2074.7	1878.5	1680.7	1481.9	1311.5	1159.0	1074.2	1007.4	996.2
12.5°	2279.4	2186.0	1973.6	1708.1	1452.8	1189.0	971.4	784.6	655.3	597.1	576.5
15°	2269.1	2150.9	1872.5	1528.2	1204.4	878.9	615.0	435.2	346.1	318.7	316.9
17.5°	2267.4	2119.2	1762.9	1357.7	944.0	575.6	350.3	281.8	263.0	256.1	256.1
20°	2272.6	2092.7	1655.0	1161.6	687.9	350.3	261.3	244.1	233.0	227.0	227.0
22.5°	2277.7	2065.3	1551.3	963.7	456.6	256.1	230.4	215.9	203.0	196.2	192.7
25°	2281.1	2035.3	1436.5	764.9	298.1	222.7	202.2	183.3	167.9	159.3	159.3
27.5°	2280.3	1999.3	1320.9	570.5	231.3	197.9	173.0	153.3	137.9	128.5	129.3
30°	2273.4	1959.9	1201.0	398.3	202.2	173.0	148.2	127.6	112.2	104.5	103.6
32.5°	2268.3	1917.9	1062.2	280.1	181.6	151.6	125.9	106.2	93.4	87.4	86.5
35°	2262.3	1876.8	930.3	213.3	163.6	131.1	106.2	89.9	79.7	74.5	74.5
37.5°	2264.0	1834.0	787.2	183.3	145.6	113.9	90.8	77.1	68.5	63.4	62.5
40°	2290.6	1808.3	646.7	166.2	129.3	98.5	78.8	66.8	58.2	53.1	52.3
42.5°	2356.5	1809.1	512.2	153.3	114.8	83.9	68.5	57.4	49.7	43.7	42.8
45°	2488.4	1845.1	393.2	139.6	99.4	72.8	59.1	48.8	41.1	36.0	35.1
47.5°	2704.3	1952.2	298.1	127.6	86.5	63.4	50.5	41.1	34.3	30.0	29.1
50°	3047.8	2145.8	234.7	113.1	72.8	54.8	42.8	34.3	28.3	24.0	23.1
52.5°	3460.7	2436.2	201.3	100.2	62.5	48.0	36.8	28.3	23.1	19.7	18.8
55°	3935.2	2783.1	185.9	87.4	53.1	41.1	30.0	23.1	18.8	16.3	14.6
57.5°	4370.4	3095.8	185.0	74.5	45.4	35.1	24.8	19.7	16.3	12.8	12.0
60°	4794.4	3357.0	173.9	61.7	39.4	29.1	21.4	16.3	13.7	11.1	10.3
62.5°	5179.0	3569.5	145.6	49.7	33.4	24.0	18.0	14.6	12.0	9.4	9.4
65°	5662.1	3840.1	111.4	40.3	27.4	19.7	15.4	12.8	11.1	8.6	8.6
67.5°	6161.5	3983.2	79.7	33.4	22.3	17.1	13.7	12.0	9.4	7.7	7.7
70°	5580.8	3365.6	57.4	27.4	18.8	14.6	12.0	11.1	9.4	7.7	6.9
72.5°	4358.4	2426.8	42.8	21.4	16.3	13.7	11.1	10.3	8.6	6.9	6.9
75°	3232.0	1415.1	32.6	17.1	12.8	11.1	11.1	10.3	8.6	6.9	6.0
77.5°	1756.9	493.4	24.8	13.7	10.3	8.6	9.4	9.4	7.7	6.0	5.1
80°	465.1	135.3	17.1	10.3	8.6	6.9	6.9	8.6	6.9	5.1	5.1
82.5°	135.3	39.4	12.0	8.6	6.9	6.0	6.0	6.0	5.1	4.3	3.4
85°	66.0	14.6	8.6	6.9	6.0	5.1	4.3	4.3	3.4	2.6	2.6
87.5°	29.1	6.0	6.9	6.0	6.0	4.3	3.4	2.6	2.6	1.7	0.9
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)