

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: P633926

Luminaire Tested: GWS-SA2F-760-U-T2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633926  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2F-760-U-T2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: (32) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

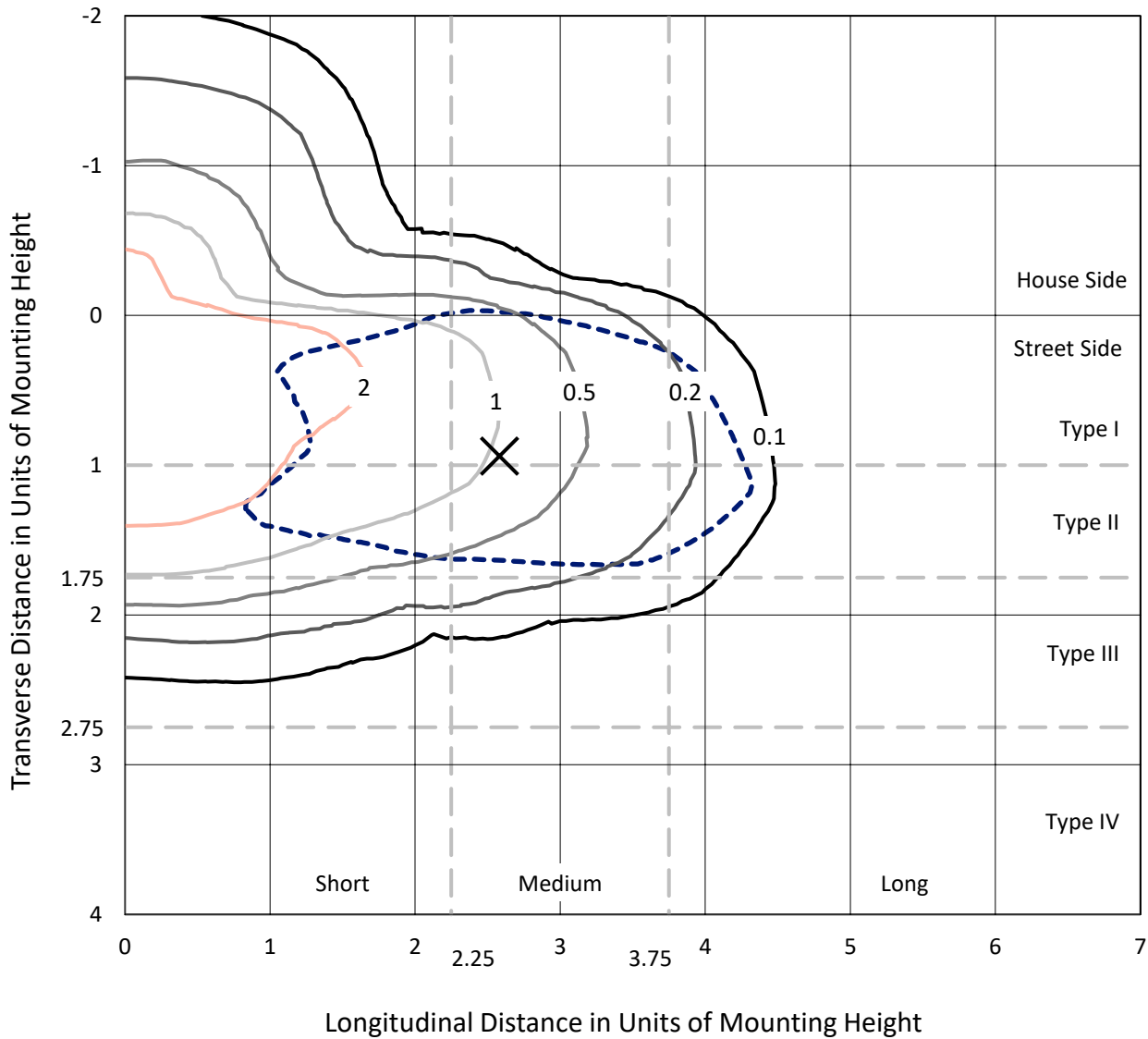
Lumens per Lamp: N/A  
Luminaire Lumens: 16238.4 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 124.5  
Input Voltage (V): 120  
Input Current (Ain): 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



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### Iso-Footcandle Lines of Horizontal Illumination

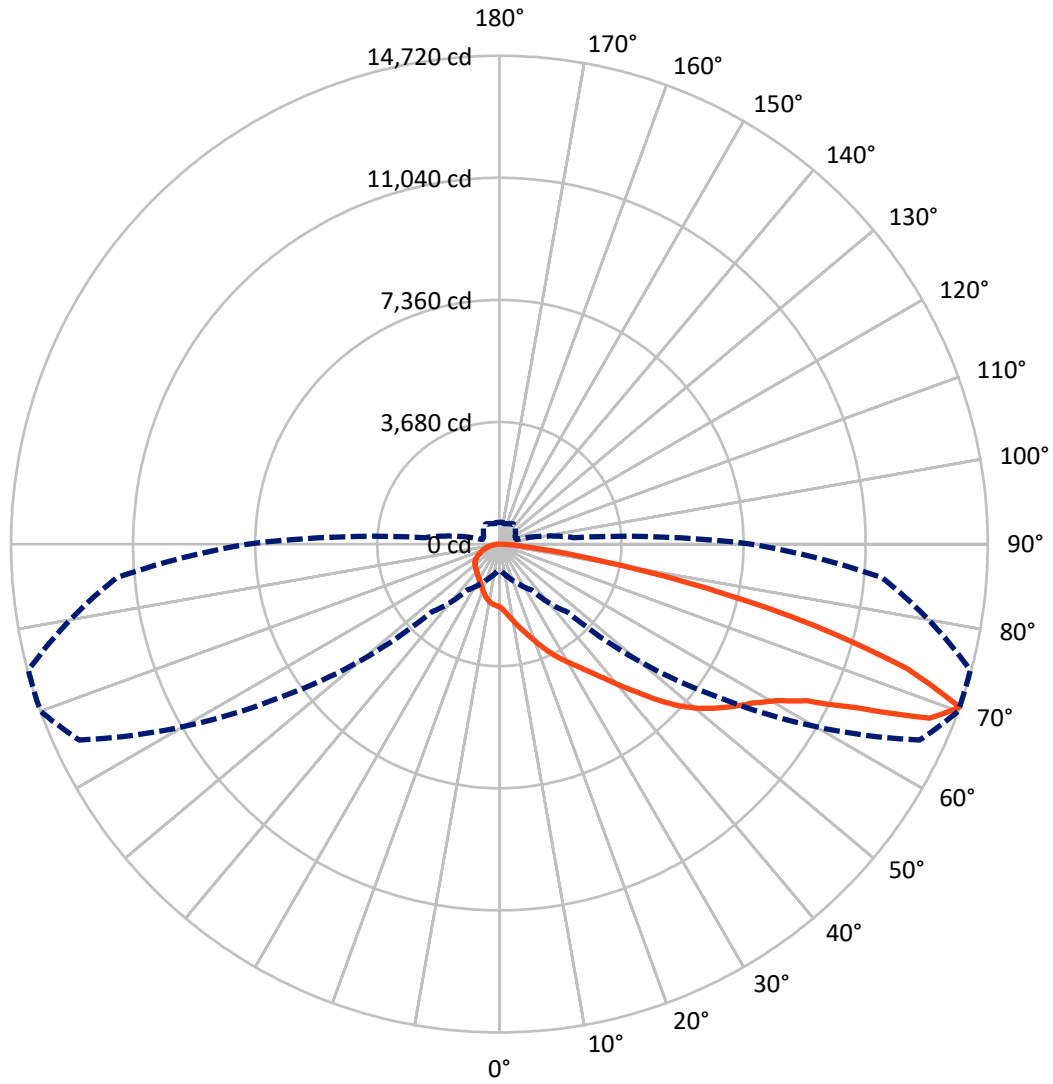
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2910.0	0.0	2910.0
	% Fixture	17.9	0.0	17.9
<b>Street Side</b>	Lumens	13328.4	0.0	13328.4
	% Fixture	82.1	0.0	82.1
<b>Total</b>	Lumens	16238.4	0.0	16238.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.5	1.2
10°-20°	626.1	3.9
20°-30°	1109.2	6.8
30°-40°	1669.4	10.3
40°-50°	2525.6	15.6
50°-60°	3618.0	22.3
60°-70°	3999.3	24.6
70°-80°	2256.9	13.9
80°-90°	241.4	1.5
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°	16238.4	100.0
0°-180°	16238.4	100.0

**Coefficient of Utilization**



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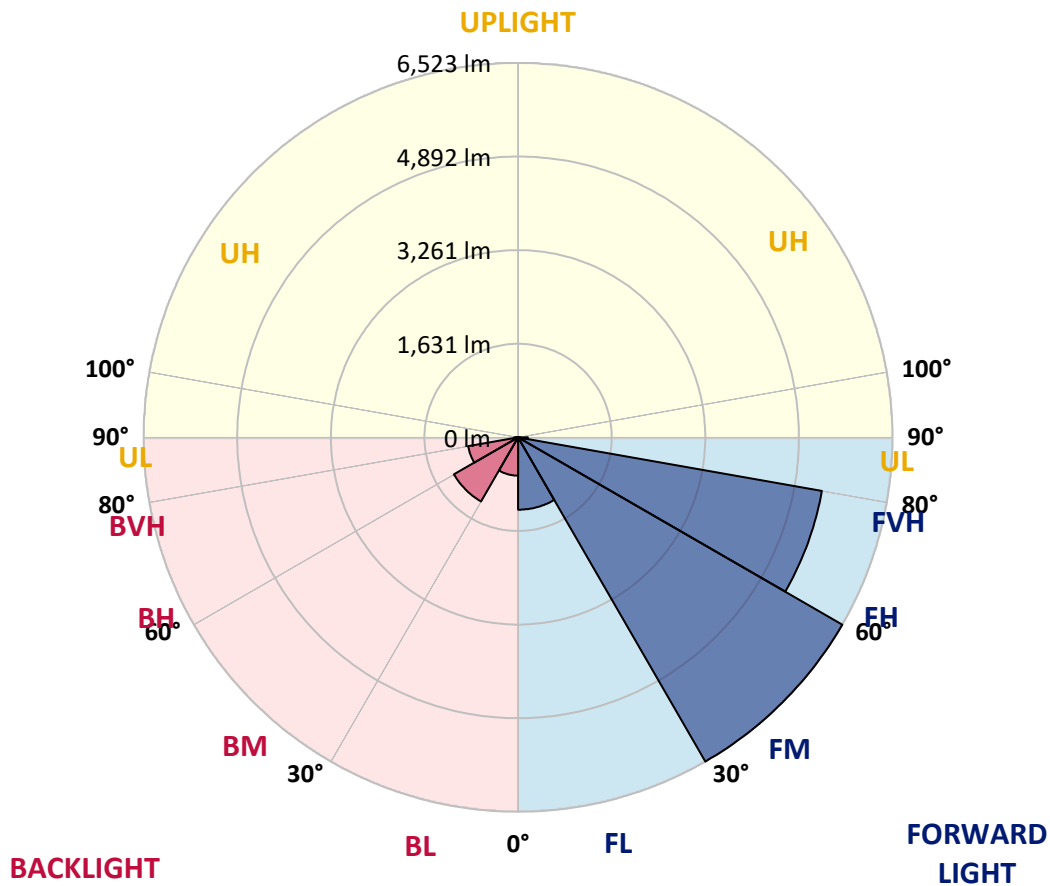
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1260.6	7.8			
FM (30°-60°)	6523.0	40.2			
FH (60°-80°)	5374.2	33.1			G3/7500
FVH (80°-90°)	170.7	1.1			G2/225
BL (0°-30°)	667.2	4.1	B2/1000		
BM (30°-60°)	1290.0	7.9	B2/2500		
BH (60°-80°)	882.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	70.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7
2.5°	2097.9	2094.4	2096.7	2094.4	2081.5	2049.8	2024.0	1991.1	1968.8	1955.9	1925.4
5°	2344.3	2340.8	2332.6	2320.8	2297.4	2253.9	2189.4	2117.8	2074.4	2041.6	1977.0
7.5°	2521.5	2521.5	2520.3	2506.2	2489.8	2444.0	2367.8	2273.9	2210.5	2154.2	2048.6
10°	2611.8	2617.7	2625.9	2645.8	2642.3	2617.7	2546.1	2445.2	2365.4	2299.7	2142.5
12.5°	2661.1	2664.6	2678.7	2719.7	2762.0	2767.9	2725.6	2620.0	2533.2	2445.2	2246.9
15°	2724.4	2725.6	2744.4	2793.7	2855.9	2918.0	2907.5	2801.9	2712.7	2615.3	2363.1
17.5°	2773.7	2781.9	2816.0	2873.5	2950.9	3036.5	3088.2	3022.5	2912.2	2800.7	2489.8
20°	2791.3	2797.2	2841.8	2929.8	3035.4	3156.2	3271.2	3253.6	3142.1	3010.7	2632.9
22.5°	2854.7	2854.7	2887.5	2961.5	3085.8	3261.8	3448.4	3494.1	3395.6	3241.9	2786.6
25°	2994.3	2989.6	3004.9	3035.4	3129.2	3346.3	3623.2	3760.5	3650.2	3477.7	2940.3
27.5°	3185.6	3183.2	3182.0	3186.7	3218.4	3420.2	3771.0	4009.2	3898.9	3704.2	3077.6
30°	3393.2	3386.2	3401.4	3387.4	3380.3	3508.2	3896.6	4232.2	4146.5	3928.3	3191.4
32.5°	3676.0	3663.1	3659.6	3613.8	3585.7	3645.5	3997.5	4485.6	4417.5	4170.0	3319.3
35°	4049.1	4037.4	3977.5	3904.8	3821.5	3849.7	4123.0	4733.2	4737.9	4472.7	3487.1
37.5°	4425.8	4428.1	4381.2	4209.9	4124.2	4107.8	4314.3	5034.7	5135.6	4834.1	3704.2
40°	4739.0	4753.1	4753.1	4572.4	4444.5	4429.3	4583.0	5392.6	5593.2	5277.6	3978.7
42.5°	4977.2	4990.1	5031.2	4900.9	4766.0	4818.8	4909.2	5751.6	6111.8	5825.5	4326.0
45°	5238.9	5249.4	5271.7	5196.6	5118.0	5258.8	5278.8	6181.0	6705.5	6440.3	4729.6
47.5°	5586.2	5576.8	5579.1	5524.0	5463.0	5690.6	5685.9	6542.4	7279.3	7113.8	5167.3
50°	6017.9	6035.5	6019.1	5910.0	5838.4	6046.1	6073.1	6942.5	7783.8	7780.3	5608.5
52.5°	6433.3	6440.3	6527.2	6531.9	6385.2	6341.8	6412.2	7346.1	8209.7	8390.4	6032.0
55°	6454.4	6481.4	6741.9	6929.6	7166.6	6818.1	6754.8	7731.0	8621.5	8987.6	6472.0
57.5°	6005.0	6048.4	6490.8	6895.6	7555.0	7635.9	7341.4	8228.5	9033.4	9575.4	6981.2
60°	5045.3	5135.6	5736.3	6355.9	7380.2	8223.8	8541.7	8904.3	9574.3	10176.2	7599.6
62.5°	3221.9	3257.1	4099.6	5136.8	6592.9	8166.3	9848.8	10095.2	10397.9	10958.8	8552.3
65°	1613.3	1725.9	2219.9	3065.9	4754.3	7196.0	10509.4	12276.4	11905.6	12298.7	10096.4
67.5°	1094.7	1131.1	1381.0	1842.1	2787.8	5098.1	10099.9	14113.8	14004.7	14069.2	11742.6
70°	807.2	830.7	1027.8	1304.7	1686.1	2894.6	8040.7	13975.4	14720.4	14697.0	11570.1
72.5°	589.0	600.7	749.7	996.1	1249.6	1497.2	4910.3	11289.7	12850.2	13527.2	10118.7
75°	428.3	442.3	521.0	745.1	971.5	934.0	2424.1	8154.6	9799.5	11101.9	8243.7
77.5°	319.1	336.7	373.1	467.0	680.5	668.8	1047.8	5295.2	6338.3	7251.1	5007.7
80°	230.0	233.5	254.6	299.2	431.8	391.9	498.7	2760.8	3165.6	3468.3	1963.0
82.5°	139.6	143.1	170.1	184.2	267.5	246.4	259.3	894.1	1281.3	1359.9	733.3
85°	41.1	43.4	77.4	84.5	111.5	105.6	104.4	363.7	434.1	555.0	288.6
87.5°	0.0	0.0	0.0	0.0	1.2	7.0	12.9	64.5	97.4	134.9	70.4
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°	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7	1893.7
2.5°	1913.7	1886.7	1872.6	1848.0	1830.4	1812.8	1795.2	1778.7	1771.7	1761.1	1763.5
5°	1947.7	1905.5	1863.2	1815.1	1774.1	1740.0	1709.5	1682.5	1670.8	1660.2	1664.9
7.5°	1999.3	1936.0	1855.0	1767.0	1702.5	1655.6	1623.9	1605.1	1599.2	1591.0	1591.0
10°	2065.0	1970.0	1828.0	1702.5	1625.0	1587.5	1573.4	1572.2	1578.1	1579.3	1576.9
12.5°	2137.8	2002.9	1788.1	1626.2	1560.5	1548.8	1559.3	1579.3	1599.2	1609.8	1607.4
15°	2212.9	2024.0	1720.1	1553.5	1513.6	1528.8	1562.9	1602.8	1641.5	1661.4	1660.2
17.5°	2283.3	2028.7	1632.1	1483.1	1472.5	1511.2	1569.9	1632.1	1684.9	1713.0	1714.2
20°	2361.9	2020.5	1541.7	1419.7	1431.4	1494.8	1572.2	1647.3	1709.5	1737.7	1744.7
22.5°	2433.5	1992.3	1453.7	1359.9	1396.2	1474.9	1553.5	1623.9	1679.0	1706.0	1715.4
25°	2498.0	1938.3	1357.5	1309.4	1369.3	1446.7	1506.5	1555.8	1594.5	1611.0	1623.9
27.5°	2533.2	1857.4	1284.8	1269.5	1343.4	1406.8	1439.7	1454.9	1467.8	1463.1	1472.5
30°	2540.2	1756.5	1221.4	1237.8	1304.7	1351.7	1358.7	1343.4	1321.2	1284.8	1293.0
32.5°	2533.2	1640.3	1168.6	1203.8	1261.3	1289.5	1280.1	1240.2	1186.2	1129.9	1133.4
35°	2535.5	1523.0	1125.2	1166.3	1210.9	1226.1	1202.6	1147.5	1090.0	1038.4	1036.0
37.5°	2561.4	1424.4	1088.8	1129.9	1161.6	1163.9	1138.1	1080.6	1051.3	1012.6	1007.9
40°	2632.9	1351.7	1056.0	1093.5	1113.5	1112.3	1083.0	1041.9	1061.9	1048.9	1045.4
42.5°	2750.3	1307.1	1029.0	1054.8	1068.9	1071.2	1047.8	1022.0	1065.4	1048.9	1043.1
45°	2939.2	1304.7	1010.2	1016.1	1038.4	1054.8	1038.4	1009.1	1025.5	945.7	930.4
47.5°	3163.3	1344.6	996.1	982.1	1020.8	1050.1	1024.3	977.4	943.3	870.6	860.0
50°	3433.1	1425.6	983.2	945.7	995.0	1032.5	1006.7	942.2	890.5	851.8	846.0
52.5°	3753.4	1532.4	966.8	904.6	956.3	1023.1	1006.7	938.7	870.6	835.4	829.5
55°	4089.0	1655.6	948.0	855.3	912.8	1025.5	1014.9	914.0	855.3	836.6	831.9
57.5°	4505.5	1803.4	914.0	797.9	874.1	1004.4	982.1	899.9	844.8	829.5	824.8
60°	5046.4	2022.8	849.5	739.2	829.5	966.8	952.7	876.5	816.6	803.7	800.2
62.5°	5903.0	2394.7	770.9	682.9	776.7	888.2	909.3	831.9	781.4	780.3	779.1
65°	7299.2	2841.8	678.2	632.4	721.6	823.7	851.8	786.1	745.1	758.0	756.8
67.5°	8277.8	2880.5	601.9	579.6	657.1	753.3	794.3	739.2	694.6	719.2	718.1
70°	7582.0	2246.9	536.2	524.5	587.8	677.0	732.1	680.5	635.9	659.4	654.7
72.5°	6394.6	1722.4	474.0	467.0	517.4	597.2	652.4	621.9	574.9	574.9	564.4
75°	5139.1	1420.9	408.3	404.8	438.8	516.3	578.4	526.8	483.4	481.1	474.0
77.5°	2947.4	931.6	342.6	340.3	350.8	431.8	449.4	438.8	406.0	390.7	386.0
80°	1174.5	484.6	269.9	254.6	265.2	316.8	354.3	336.7	308.6	289.8	279.2
82.5°	455.2	242.9	190.1	166.6	181.9	228.8	257.0	251.1	232.3	190.1	178.3
85°	185.4	118.5	113.8	96.2	105.6	123.2	147.8	127.9	105.6	75.1	71.6
87.5°	49.3	43.4	42.2	25.8	19.9	5.9	1.2	0.0	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)