

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: P633871

Luminaire Tested: GWS-SA2F-750-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633871
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-750-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16464.1 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

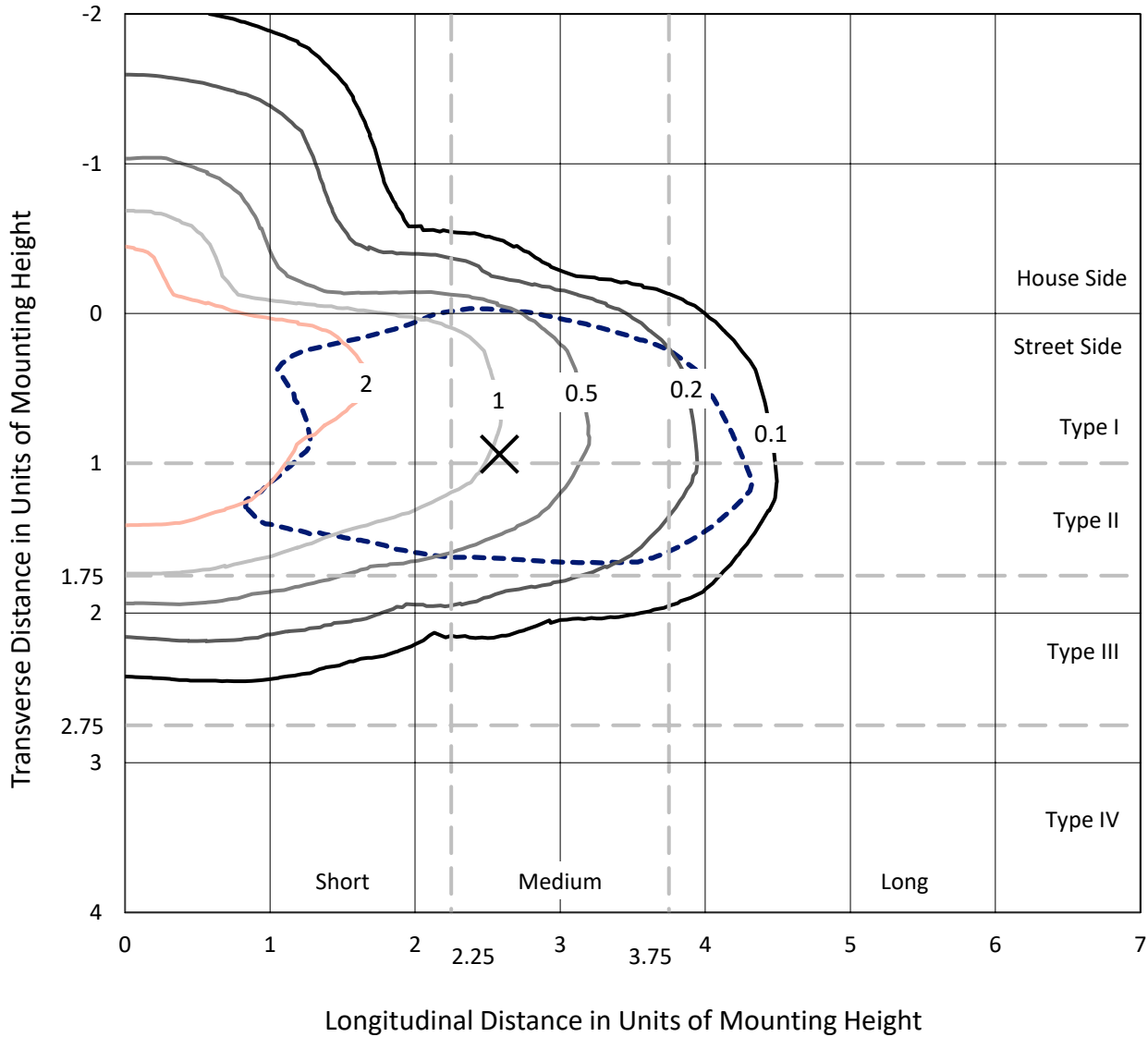
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633871
 CATALOG NUMBER: GWS-SA2F-750-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination

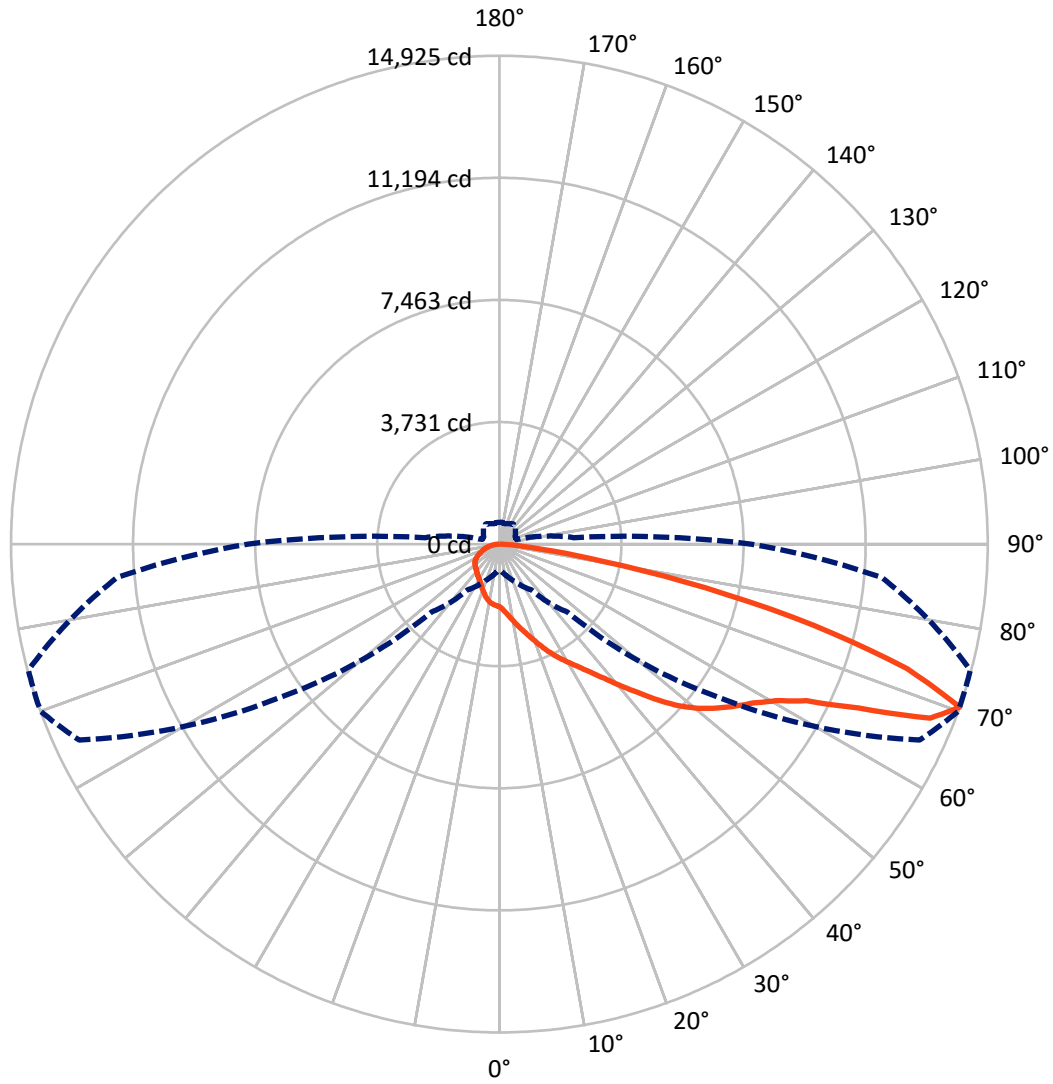
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P633871
CATALOG NUMBER: GWS-SA2F-750-U-T2-W

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA2F-750-U-T2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2950.4	0.0	2950.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	13513.7	0.0	13513.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	16464.1	0.0	16464.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	1.2
10°-20°	634.8	3.9
20°-30°	1124.6	6.8
30°-40°	1692.6	10.3
40°-50°	2560.7	15.6
50°-60°	3668.3	22.3
60°-70°	4054.9	24.6
70°-80°	2288.3	13.9
80°-90°	244.8	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°	16464.1	100.0
0°-180°	16464.1	100.0

Coefficient of Utilization



REPORT NUMBER: P633871

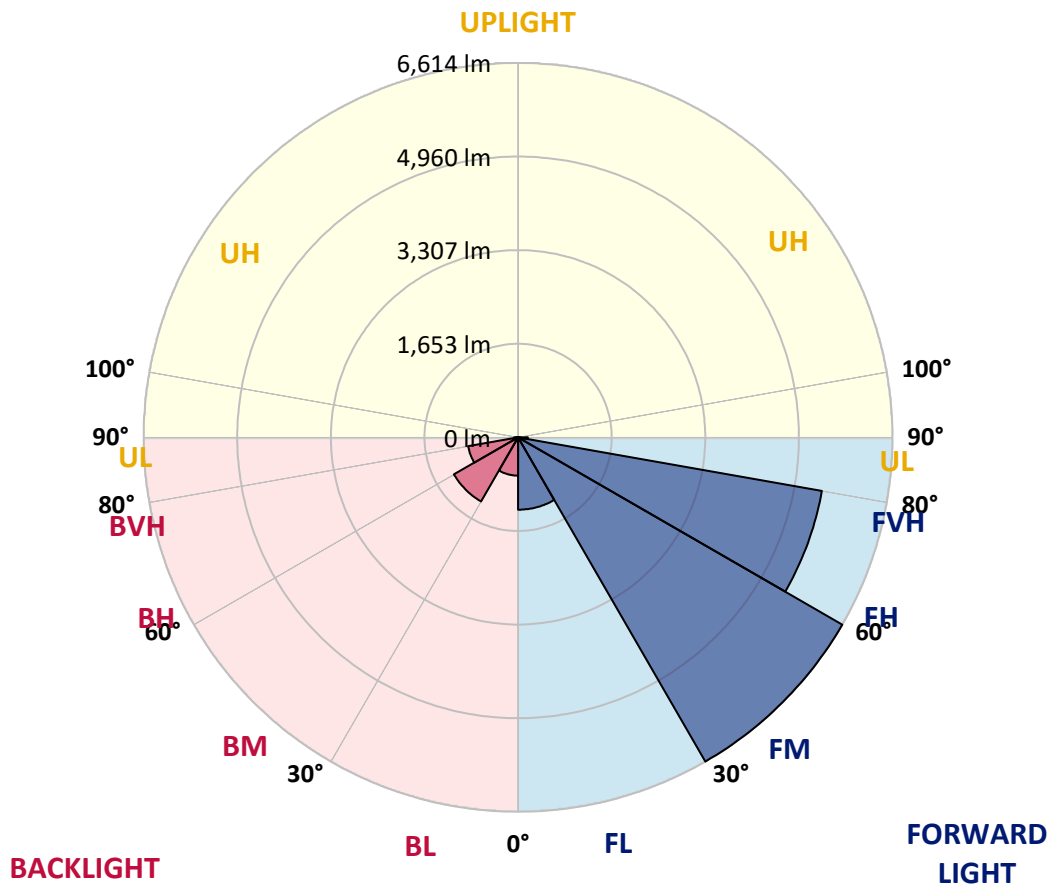
CATALOG NUMBER: GWS-SA2F-750-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1278.1	7.8			
FM (30°-60°)	6613.6	40.2			
FH (60°-80°)	5448.9	33.1			G3/7500
FVH (80°-90°)	173.0	1.1			G2/225
BL (0°-30°)	676.5	4.1	B2/1000		
BM (30°-60°)	1307.9	7.9	B2/2500		
BH (60°-80°)	894.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	71.7	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





REPORT NUMBER: P633871

CATALOG NUMBER: GWS-SA2F-750-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1
2.5°	2127.0	2123.5	2125.9	2123.5	2110.4	2078.3	2052.1	2018.8	1996.2	1983.1	1952.2
5°	2376.9	2373.3	2365.0	2353.1	2329.3	2285.3	2219.8	2147.3	2103.3	2069.9	2004.5
7.5°	2556.5	2556.5	2555.3	2541.0	2524.4	2478.0	2400.7	2305.5	2241.3	2184.2	2077.1
10°	2648.1	2654.1	2662.4	2682.6	2679.0	2654.1	2581.5	2479.2	2398.3	2331.7	2172.3
12.5°	2698.1	2701.6	2715.9	2757.6	2800.4	2806.3	2763.5	2656.4	2568.4	2479.2	2278.1
15°	2762.3	2763.5	2782.5	2832.5	2895.5	2958.6	2947.9	2840.8	2750.4	2651.7	2395.9
17.5°	2812.3	2820.6	2855.1	2913.4	2991.9	3078.7	3131.1	3064.5	2952.6	2839.6	2524.4
20°	2830.1	2836.1	2881.3	2970.5	3077.6	3200.1	3316.7	3298.8	3185.8	3052.6	2669.5
22.5°	2894.4	2894.4	2927.7	3002.6	3128.7	3307.2	3496.3	3542.7	3442.8	3286.9	2825.4
25°	3035.9	3031.2	3046.6	3077.6	3172.7	3392.8	3673.6	3812.7	3700.9	3526.0	2981.2
27.5°	3229.8	3227.5	3226.3	3231.0	3263.1	3467.8	3823.5	4064.9	3953.1	3755.6	3120.4
30°	3440.4	3433.3	3448.7	3434.4	3427.3	3557.0	3950.7	4291.0	4204.1	3982.9	3235.8
32.5°	3727.1	3714.0	3710.4	3664.0	3635.5	3696.2	4053.1	4547.9	4478.9	4227.9	3365.4
35°	4105.4	4093.5	4032.8	3959.1	3874.6	3903.2	4180.3	4798.9	4803.7	4534.9	3535.6
37.5°	4487.3	4489.6	4442.1	4268.4	4181.5	4164.9	4374.3	5104.7	5207.0	4901.3	3755.6
40°	4804.9	4819.2	4819.2	4636.0	4506.3	4490.8	4646.7	5467.5	5670.9	5350.9	4034.0
42.5°	5046.4	5059.5	5101.1	4969.1	4832.3	4885.8	4977.4	5831.5	6196.8	5906.5	4386.1
45°	5311.7	5322.4	5345.0	5268.8	5189.1	5331.9	5352.1	6266.9	6798.7	6529.9	4795.4
47.5°	5663.8	5654.3	5656.7	5600.8	5538.9	5769.7	5764.9	6633.3	7380.4	7212.7	5239.1
50°	6101.6	6119.4	6102.8	5992.1	5919.6	6130.1	6157.5	7039.0	7892.0	7888.4	5686.4
52.5°	6522.7	6529.9	6617.9	6622.6	6473.9	6429.9	6501.3	7448.2	8323.8	8507.0	6115.9
55°	6544.1	6571.5	6835.6	7025.9	7266.2	6912.9	6848.7	7838.4	8741.4	9112.5	6562.0
57.5°	6088.5	6132.5	6581.0	6991.4	7660.0	7742.1	7443.5	8342.8	9158.9	9708.5	7078.3
60°	5115.4	5207.0	5816.1	6444.2	7482.7	8338.1	8660.5	9028.1	9707.3	10317.6	7705.2
62.5°	3266.7	3302.4	4156.6	5208.2	6684.5	8279.8	9985.7	10235.5	10542.5	11111.1	8671.2
65°	1635.7	1749.9	2250.8	3108.5	4820.4	7296.0	10655.5	12447.0	12071.1	12469.7	10236.7
67.5°	1109.9	1146.8	1400.2	1867.7	2826.5	5168.9	10240.3	14310.0	14199.4	14264.8	11905.8
70°	818.5	842.3	1042.1	1322.9	1709.5	2934.8	8152.5	14169.6	14925.0	14901.2	11730.9
72.5°	597.2	609.1	760.2	1010.0	1267.0	1518.0	4978.6	11446.6	13028.8	13715.2	10259.3
75°	434.2	448.5	528.2	755.4	985.0	946.9	2457.8	8267.9	9935.7	11256.2	8358.3
77.5°	323.6	341.4	378.3	473.5	690.0	678.1	1062.3	5368.8	6426.4	7351.9	5077.3
80°	233.2	236.7	258.1	303.4	437.8	397.3	505.6	2799.2	3209.6	3516.5	1990.2
82.5°	141.6	145.1	172.5	186.8	271.2	249.8	262.9	906.5	1299.1	1378.8	743.5
85°	41.6	44.0	78.5	85.7	113.0	107.1	105.9	368.8	440.2	562.7	292.6
87.5°	0.0	0.0	0.0	0.0	1.2	7.1	13.1	65.4	98.7	136.8	71.4
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: P633871
 CATALOG NUMBER: GWS-SA2F-750-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1	1920.1
2.5°	1940.3	1912.9	1898.6	1873.7	1855.8	1838.0	1820.1	1803.5	1796.3	1785.6	1788.0
5°	1974.8	1932.0	1889.1	1840.4	1798.7	1764.2	1733.3	1705.9	1694.0	1683.3	1688.1
7.5°	2027.1	1962.9	1880.8	1791.6	1726.1	1678.6	1646.4	1627.4	1621.5	1613.1	1613.1
10°	2093.7	1997.4	1853.4	1726.1	1647.6	1609.6	1595.3	1594.1	1600.0	1601.2	1598.9
12.5°	2167.5	2030.7	1813.0	1648.8	1582.2	1570.3	1581.0	1601.2	1621.5	1632.2	1629.8
15°	2243.6	2052.1	1744.0	1575.1	1534.6	1550.1	1584.6	1625.0	1664.3	1684.5	1683.3
17.5°	2315.0	2056.9	1654.8	1503.7	1493.0	1532.2	1591.7	1654.8	1708.3	1736.9	1738.0
20°	2394.7	2048.5	1563.2	1439.4	1451.3	1515.6	1594.1	1670.2	1733.3	1761.8	1769.0
22.5°	2467.3	2020.0	1473.9	1378.8	1415.7	1495.4	1575.1	1646.4	1702.4	1729.7	1739.2
25°	2532.7	1965.3	1376.4	1327.6	1388.3	1466.8	1527.5	1577.4	1616.7	1633.4	1646.4
27.5°	2568.4	1883.2	1302.6	1287.2	1362.1	1426.4	1459.7	1475.1	1488.2	1483.5	1493.0
30°	2575.5	1780.9	1238.4	1255.1	1322.9	1370.4	1377.6	1362.1	1339.5	1302.6	1311.0
32.5°	2568.4	1663.1	1184.9	1220.6	1278.8	1307.4	1297.9	1257.4	1202.7	1145.6	1149.2
35°	2570.8	1544.1	1140.9	1182.5	1227.7	1243.2	1219.4	1163.5	1105.2	1052.8	1050.4
37.5°	2597.0	1444.2	1104.0	1145.6	1177.7	1180.1	1153.9	1095.6	1065.9	1026.6	1021.9
40°	2669.5	1370.4	1070.7	1108.7	1129.0	1127.8	1098.0	1056.4	1076.6	1063.5	1060.0
42.5°	2788.5	1325.2	1043.3	1069.5	1083.7	1086.1	1062.3	1036.2	1080.2	1063.5	1057.6
45°	2980.0	1322.9	1024.3	1030.2	1052.8	1069.5	1052.8	1023.1	1039.7	958.8	943.4
47.5°	3207.2	1363.3	1010.0	995.7	1035.0	1064.7	1038.5	991.0	956.5	882.7	872.0
50°	3480.8	1445.4	996.9	958.8	1008.8	1046.9	1020.7	955.3	902.9	863.7	857.7
52.5°	3805.6	1553.7	980.3	917.2	969.5	1037.4	1020.7	951.7	882.7	847.0	841.1
55°	4145.8	1678.6	961.2	867.2	925.5	1039.7	1029.0	926.7	867.2	848.2	843.4
57.5°	4568.2	1828.5	926.7	808.9	886.3	1018.3	995.7	912.4	856.5	841.1	836.3
60°	5116.6	2050.9	861.3	749.5	841.1	980.3	966.0	888.6	828.0	814.9	811.3
62.5°	5985.0	2428.0	781.6	692.4	787.5	900.5	922.0	843.4	792.3	791.1	789.9
65°	7400.7	2881.3	687.6	641.2	731.6	835.1	863.7	797.0	755.4	768.5	767.3
67.5°	8392.8	2920.5	610.3	587.7	666.2	763.7	805.4	749.5	704.3	729.2	728.1
70°	7687.4	2278.1	543.7	531.8	596.0	686.4	742.3	690.0	644.8	668.6	663.8
72.5°	6483.5	1746.4	480.6	473.5	524.6	605.5	661.4	630.5	582.9	582.9	572.2
75°	5210.6	1440.6	414.0	410.4	444.9	523.4	586.5	534.1	490.1	487.7	480.6
77.5°	2988.3	944.6	347.4	345.0	355.7	437.8	455.6	444.9	411.6	396.1	391.4
80°	1190.8	491.3	273.6	258.1	268.9	321.2	359.3	341.4	312.9	293.8	283.1
82.5°	461.6	246.3	192.7	168.9	184.4	232.0	260.5	254.6	235.5	192.7	180.8
85°	188.0	120.2	115.4	97.5	107.1	124.9	149.9	129.7	107.1	76.1	72.6
87.5°	50.0	44.0	42.8	26.2	20.2	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)