

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: P640365

Luminaire Tested: GWS-SA5D-760-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-760-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30904.6 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

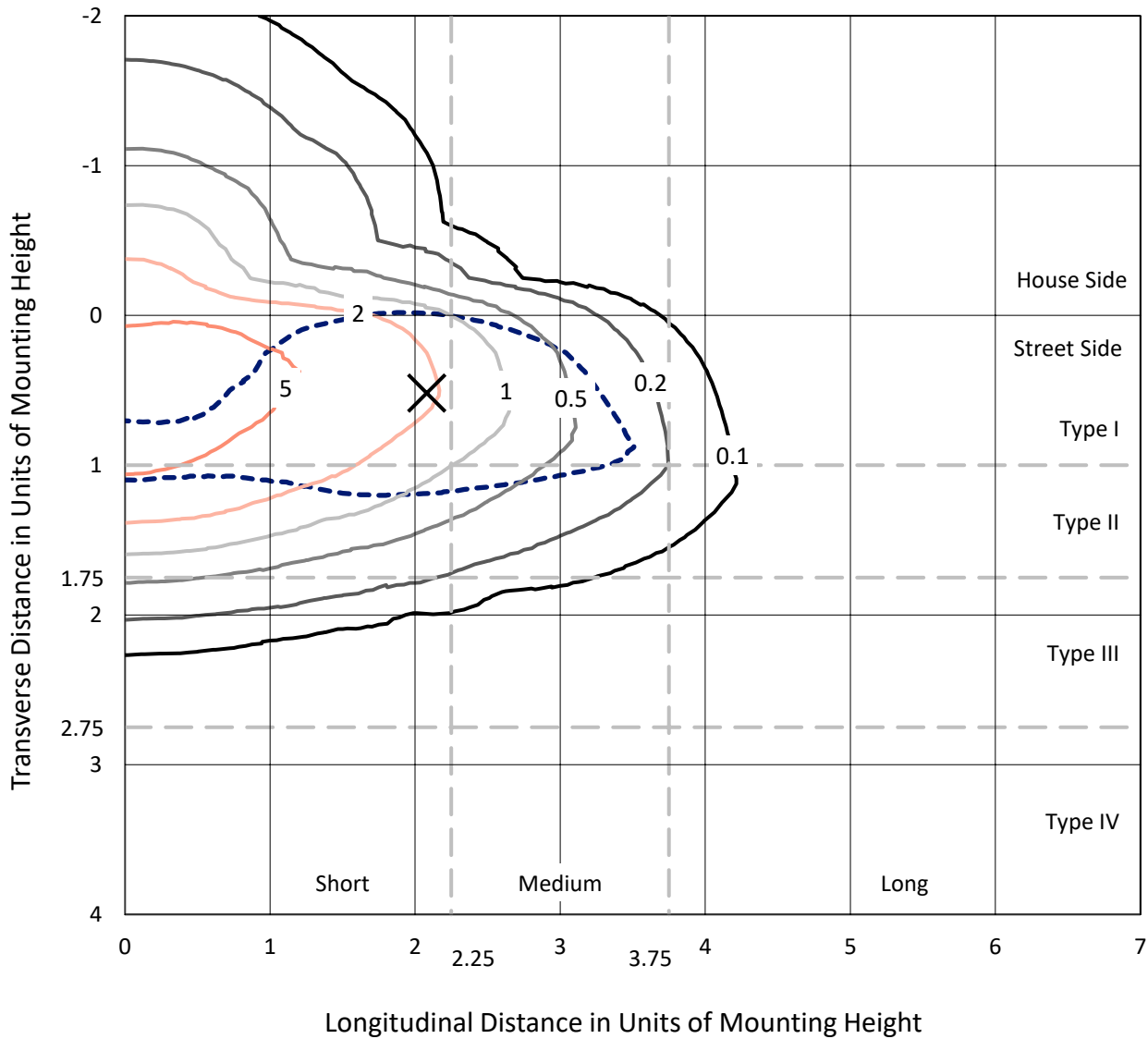
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

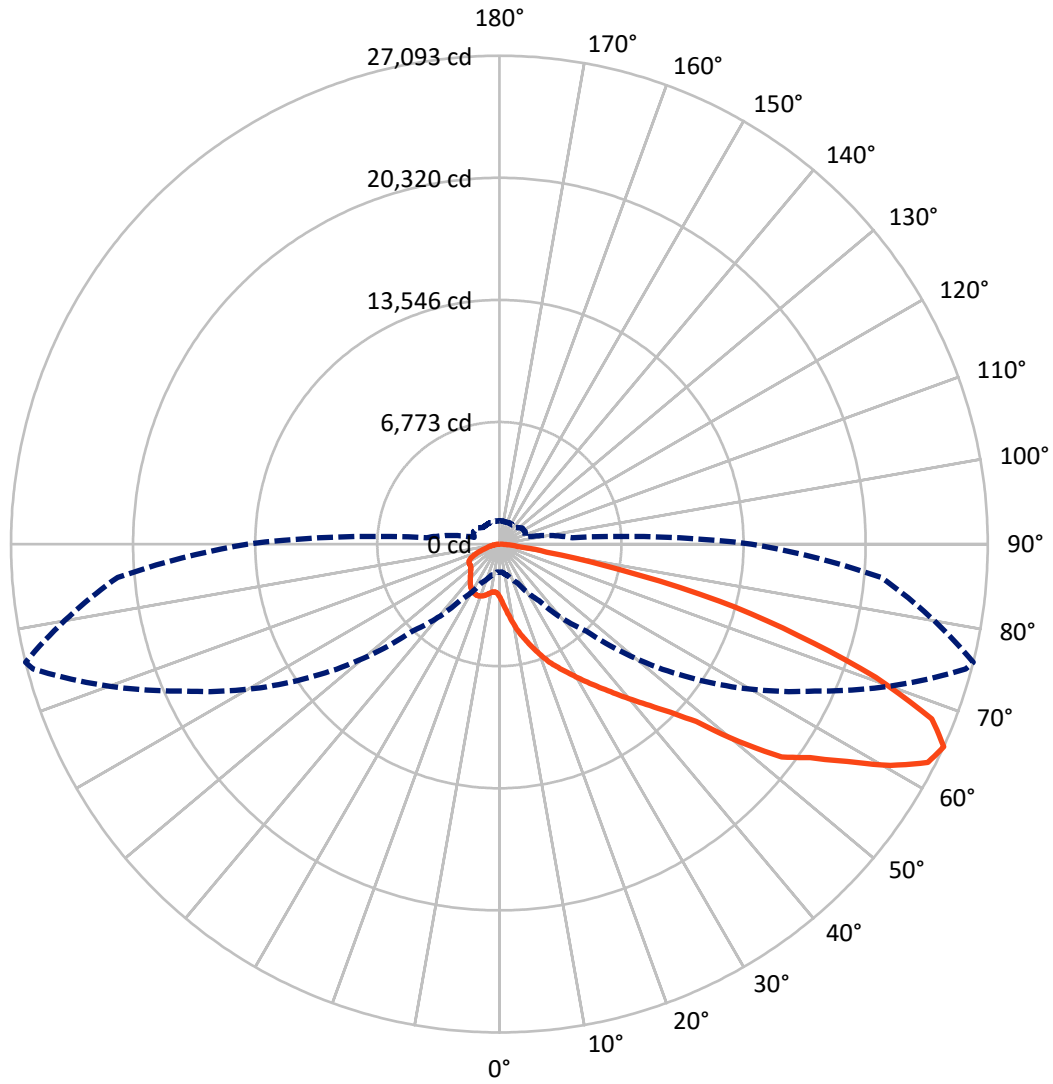
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5165.7	0.0	5165.7
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	25738.9	0.0	25738.9
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	30904.6	0.0	30904.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.7	1.1
10°-20°	1324.3	4.3
20°-30°	2580.9	8.4
30°-40°	4316.4	14.0
40°-50°	6180.2	20.0
50°-60°	7316.6	23.7
60°-70°	6083.8	19.7
70°-80°	2489.6	8.1
80°-90°	265.1	0.9
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°	30904.6	100.0
0°-180°	30904.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P640365

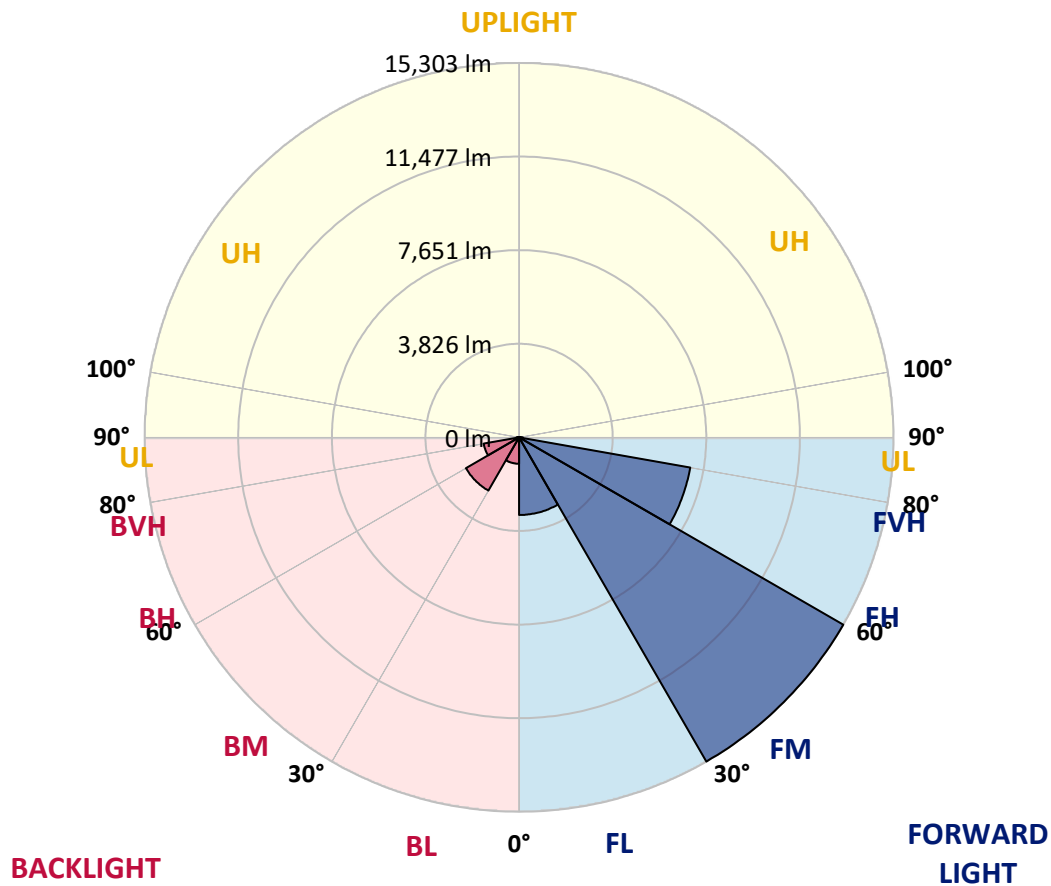
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3172.2	10.3			
FM (30°-60°)	15302.8	49.5			
FH (60°-80°)	7105.8	23.0			G3/7500
FVH (80°-90°)	158.1	0.5			G2/225
BL (0°-30°)	1080.7	3.5	B3/2500		
BM (30°-60°)	2510.4	8.1	B3/5000		
BH (60°-80°)	1467.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	107.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6
2.5°	4102.0	4117.2	4067.2	4049.8	3932.5	3773.9	3641.4	3441.5	3256.8	3228.5	3063.4
5°	5210.0	5144.8	5088.3	5051.4	4888.4	4708.1	4427.8	4052.0	3658.7	3610.9	3254.6
7.5°	5868.3	5857.4	5787.9	5766.2	5640.2	5459.9	5170.9	4703.8	4132.4	4054.2	3513.2
10°	6396.3	6389.7	6355.0	6374.5	6259.4	6083.4	5803.1	5320.8	4651.6	4573.4	3802.1
12.5°	6856.9	6867.7	6861.2	6932.9	6874.2	6737.4	6446.2	5916.1	5170.9	5086.2	4154.1
15°	7193.6	7202.3	7234.9	7391.3	7423.9	7395.7	7100.2	6500.6	5683.6	5562.0	4516.9
17.5°	7289.2	7306.6	7384.8	7636.8	7812.8	7930.2	7710.7	7095.9	6187.7	6055.2	4886.3
20°	7417.4	7437.0	7515.2	7778.1	8036.6	8303.8	8264.7	7699.9	6696.1	6587.5	5260.0
22.5°	8010.5	7995.3	7960.6	8086.6	8271.3	8603.7	8701.4	8279.9	7221.9	7117.6	5672.8
25°	9153.3	9125.1	8903.5	8788.3	8727.5	8929.6	9103.4	8807.9	7734.6	7578.2	6057.3
27.5°	10413.5	10398.3	10115.8	9842.1	9468.4	9381.5	9483.6	9268.5	8232.1	8073.5	6391.9
30°	11606.3	11560.6	11265.2	10921.9	10422.2	10048.5	9898.6	9720.4	8777.5	8612.4	6783.0
32.5°	12673.0	12614.4	12266.7	11886.5	11362.9	10921.9	10474.3	10200.6	9394.5	9203.3	7182.8
35°	13548.6	13489.9	13133.6	12729.5	12153.8	11827.9	11215.2	10722.0	10022.4	9829.0	7654.2
37.5°	14226.5	14172.2	13800.6	13403.0	12901.2	12642.6	12110.3	11308.6	10745.9	10543.8	8153.9
40°	14606.7	14567.6	14269.9	13954.9	13533.4	13309.6	13070.6	12049.5	11556.3	11354.2	8742.7
42.5°	14721.8	14695.8	14487.2	14324.2	14039.6	13870.2	14007.0	12920.7	12421.0	12245.0	9405.4
45°	14432.9	14432.9	14372.0	14454.6	14467.6	14465.5	14945.6	13904.9	13483.4	13290.1	10339.6
47.5°	13694.2	13742.0	13831.1	14237.3	14665.3	15023.8	16042.8	15217.2	14850.0	14691.4	11662.8
50°	12342.8	12473.1	12777.3	13570.3	14480.7	15393.2	17081.3	17157.4	17507.2	17226.9	13609.4
52.5°	10363.5	10344.0	11119.6	12249.4	13637.7	15408.4	17652.7	18869.4	19810.2	19616.8	15056.4
55°	8236.5	8203.9	8927.4	10485.2	12345.0	14826.1	17996.0	19653.7	21087.7	20913.9	16357.8
57.5°	6307.2	6265.9	6909.0	8314.7	10519.9	13589.9	17930.8	20588.0	22845.4	22756.3	18126.4
60°	4340.9	4291.0	4892.8	6122.5	8360.3	11699.7	17209.5	21068.1	24902.8	24933.3	20018.7
62.5°	2607.2	2578.9	3015.6	3969.4	6013.9	9357.6	15521.4	20777.0	26541.0	26677.9	21235.4
65°	1573.0	1553.4	1809.8	2368.2	3815.2	6828.6	12918.5	19288.7	26777.8	27092.9	21263.7
67.5°	1145.0	1147.2	1221.0	1442.6	2224.8	4410.5	9694.3	16620.7	25543.8	25869.7	19923.1
70°	995.1	999.4	1038.5	1088.5	1344.9	2524.6	6302.8	13120.6	21895.9	22147.9	16709.8
72.5°	884.3	884.3	910.3	936.4	1051.6	1538.2	3376.3	9170.7	17281.2	17348.6	12753.4
75°	777.8	771.3	784.3	797.4	912.5	1075.5	1642.5	6389.7	12764.3	12607.9	8243.0
77.5°	619.2	612.7	614.9	627.9	732.2	769.1	832.1	3991.1	7193.6	6789.5	3641.4
80°	441.0	436.7	460.6	493.2	541.0	471.5	521.4	1931.5	2852.7	2655.0	1412.2
82.5°	262.9	271.6	308.5	334.6	373.7	295.5	336.8	645.3	1010.3	984.2	573.6
85°	36.9	39.1	110.8	128.2	160.8	115.2	178.2	291.1	404.1	432.4	202.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	15.2	52.1	115.2	117.3	50.0
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°	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6	2926.6
2.5°	2978.7	2876.6	2731.0	2609.3	2507.2	2424.7	2355.1	2303.0	2287.8	2266.1	2266.1
5°	3087.3	2902.7	2641.9	2457.3	2350.8	2287.8	2244.3	2222.6	2211.8	2198.7	2192.2
7.5°	3237.2	2978.7	2626.7	2439.9	2357.3	2318.2	2290.0	2276.9	2268.2	2255.2	2255.2
10°	3443.6	3091.7	2674.5	2500.7	2435.5	2396.4	2363.8	2342.1	2322.6	2303.0	2298.7
12.5°	3667.4	3239.4	2761.4	2583.3	2513.7	2466.0	2420.3	2387.7	2363.8	2339.9	2333.4
15°	3915.1	3391.5	2854.9	2663.7	2576.8	2511.6	2457.3	2407.3	2374.7	2339.9	2335.6
17.5°	4158.4	3545.8	2933.1	2718.0	2607.2	2526.8	2448.6	2383.4	2342.1	2303.0	2292.1
20°	4449.6	3700.0	2987.4	2733.2	2600.7	2494.2	2400.8	2318.2	2272.6	2227.0	2220.4
22.5°	4716.8	3843.4	3013.5	2711.5	2550.7	2424.7	2316.0	2227.0	2177.0	2131.4	2122.7
25°	4975.4	3969.4	3002.6	2659.3	2474.6	2329.1	2216.1	2127.0	2079.2	2031.4	2018.4
27.5°	5225.2	4054.2	2959.1	2578.9	2379.0	2222.6	2114.0	2033.6	1992.3	1951.0	1933.7
30°	5470.7	4132.4	2891.8	2474.6	2257.4	2111.8	2022.7	1966.2	1925.0	1881.5	1868.5
32.5°	5718.4	4188.9	2789.7	2353.0	2133.5	2014.0	1959.7	1918.4	1875.0	1831.5	1818.5
35°	5968.3	4212.8	2665.8	2213.9	2029.2	1951.0	1931.5	1883.7	1825.0	1772.9	1755.5
37.5°	6265.9	4234.5	2511.6	2077.0	1938.0	1920.6	1916.3	1844.6	1775.1	1703.4	1683.8
40°	6624.4	4262.7	2353.0	1953.2	1864.1	1909.8	1892.4	1794.6	1655.6	1586.0	1564.3
42.5°	7063.3	4314.9	2187.9	1840.2	1809.8	1868.5	1848.9	1672.9	1579.5	1540.4	1529.5
45°	7708.5	4506.1	2022.7	1751.2	1768.5	1809.8	1779.4	1601.2	1564.3	1538.2	1525.2
47.5°	8857.9	4799.4	1879.3	1683.8	1735.9	1757.7	1640.3	1581.7	1553.4	1518.7	1503.5
50°	10052.8	4927.6	1764.2	1642.5	1699.0	1709.9	1564.3	1555.6	1536.1	1499.1	1483.9
52.5°	10861.0	4910.2	1694.7	1627.3	1668.6	1627.3	1529.5	1527.4	1514.3	1470.9	1453.5
55°	11773.6	4940.6	1664.2	1631.7	1655.6	1488.3	1486.1	1492.6	1486.1	1438.3	1429.6
57.5°	13005.4	5034.0	1649.0	1646.9	1646.9	1420.9	1444.8	1453.5	1440.5	1418.7	1412.2
60°	14189.5	5040.5	1620.8	1664.2	1640.3	1379.6	1397.0	1405.7	1390.5	1386.1	1384.0
62.5°	14634.9	4727.7	1557.8	1651.2	1614.3	1334.0	1347.0	1351.4	1336.2	1347.0	1344.9
65°	13972.3	4062.8	1453.5	1588.2	1533.9	1292.7	1284.0	1294.9	1268.8	1297.1	1299.2
67.5°	12405.8	3228.5	1294.9	1468.7	1420.9	1247.1	1229.7	1229.7	1186.3	1229.7	1227.5
70°	10002.9	2281.3	1062.4	1277.5	1297.1	1192.8	1184.1	1134.1	1064.6	1129.8	1123.3
72.5°	7582.5	1638.2	836.5	1010.3	1116.7	1116.7	1118.9	1034.2	953.8	984.2	958.1
75°	4803.7	1153.7	669.2	773.5	875.6	979.9	1029.8	873.4	801.7	788.7	775.6
77.5°	2164.0	758.3	521.4	593.1	621.4	773.5	940.8	751.7	654.0	625.7	617.0
80°	906.0	471.5	371.5	419.3	382.4	649.6	829.9	584.4	480.2	441.0	412.8
82.5°	397.6	280.3	236.8	226.0	239.0	482.3	619.2	388.9	299.8	406.3	410.6
85°	167.3	147.7	121.7	110.8	97.8	184.7	291.1	152.1	186.8	106.5	86.9
87.5°	39.1	43.5	32.6	21.7	13.0	2.2	0.0	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)