

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: P641325

Luminaire Tested: GWS-SA5F-760-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641325  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-760-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

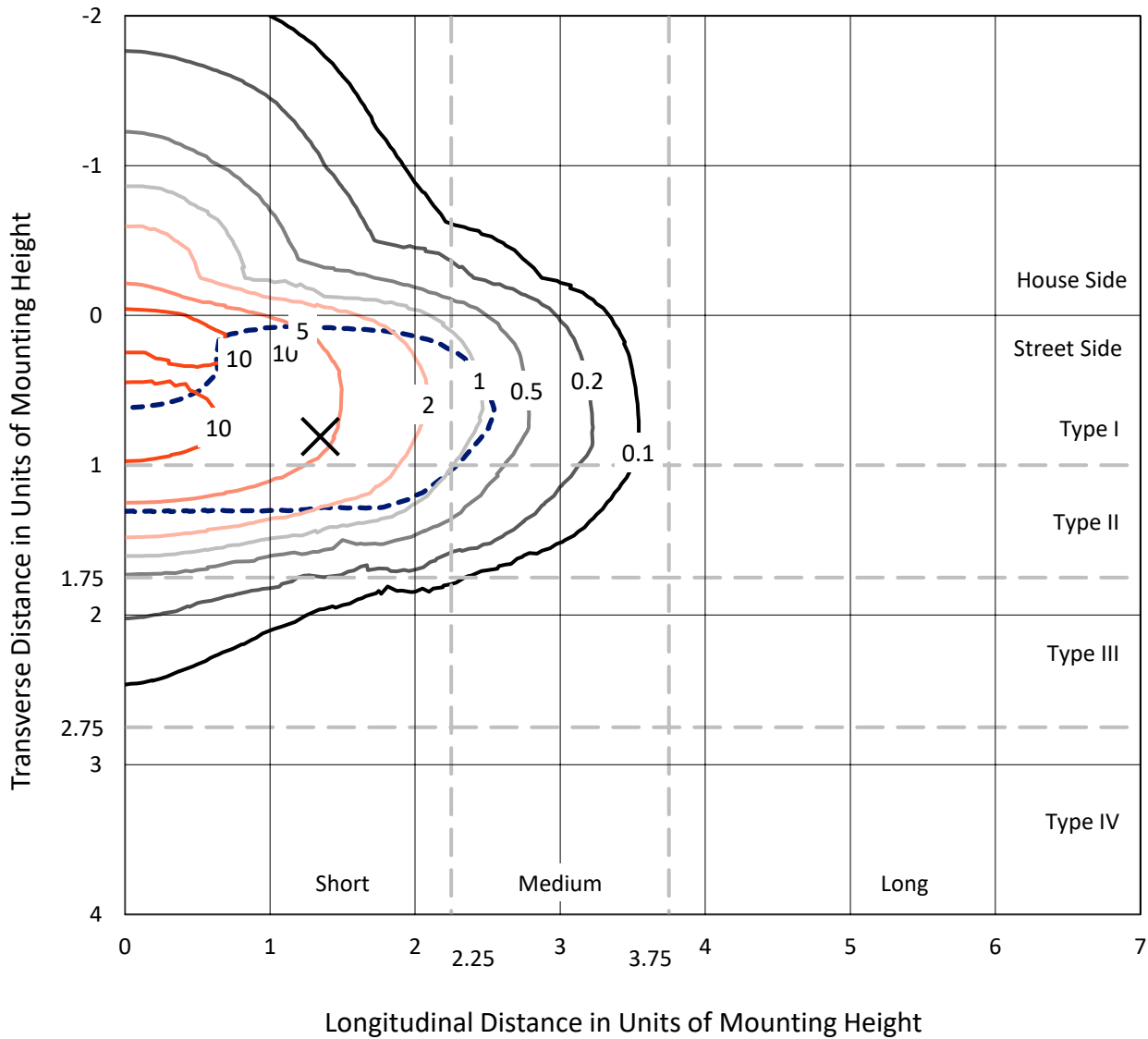
Lumens per Lamp: N/A  
Luminaire Lumens: 42881 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

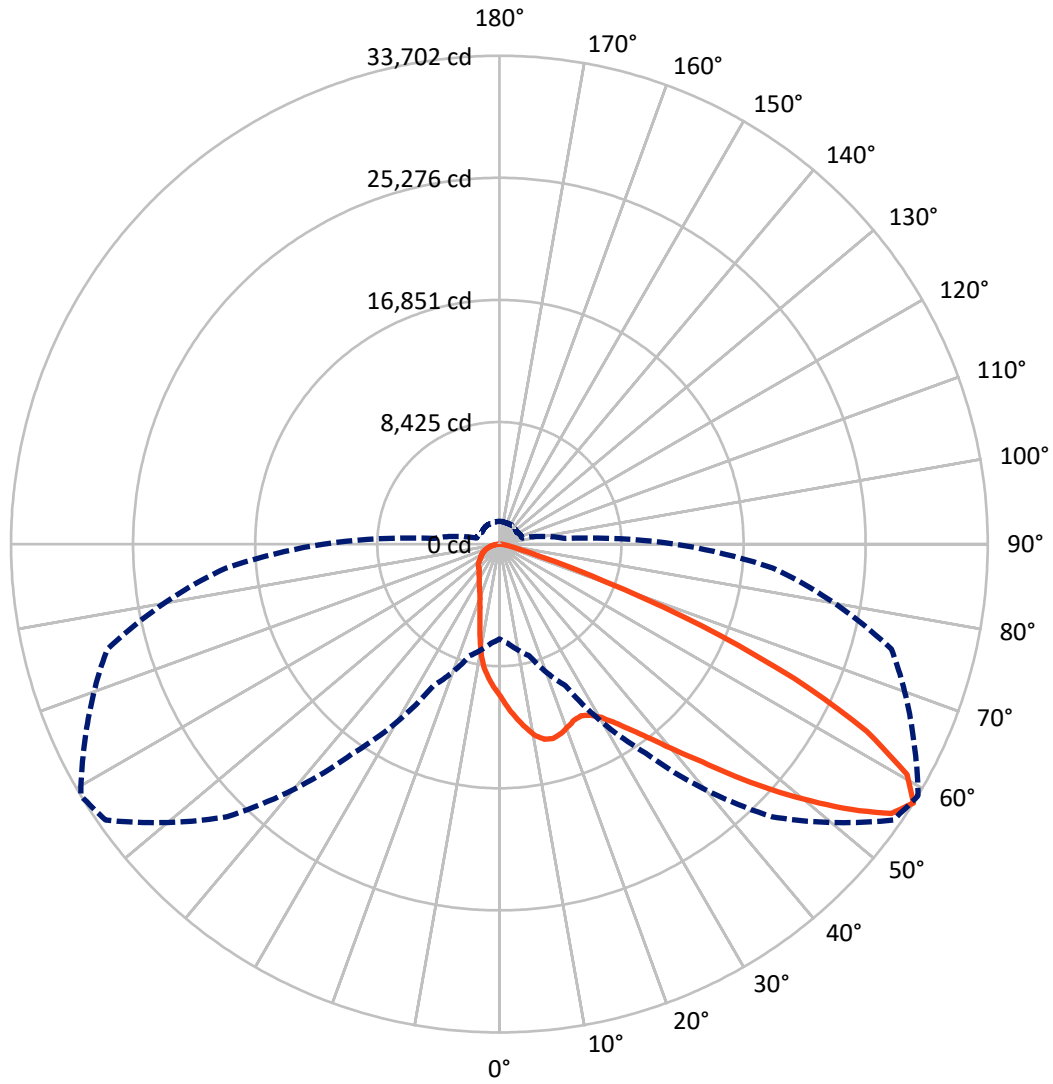
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6654.9	0.0	6654.9
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	36226.1	0.0	36226.1
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	42881.0	0.0	42881.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	977.4	2.3
10°-20°	2476.7	5.8
20°-30°	4014.8	9.4
30°-40°	6458.3	15.1
40°-50°	10029.2	23.4
50°-60°	10802.8	25.2
60°-70°	6269.5	14.6
70°-80°	1636.7	3.8
80°-90°	215.6	0.5
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°	42881.0	100.0
0°-180°	42881.0	100.0

**Coefficient of Utilization**



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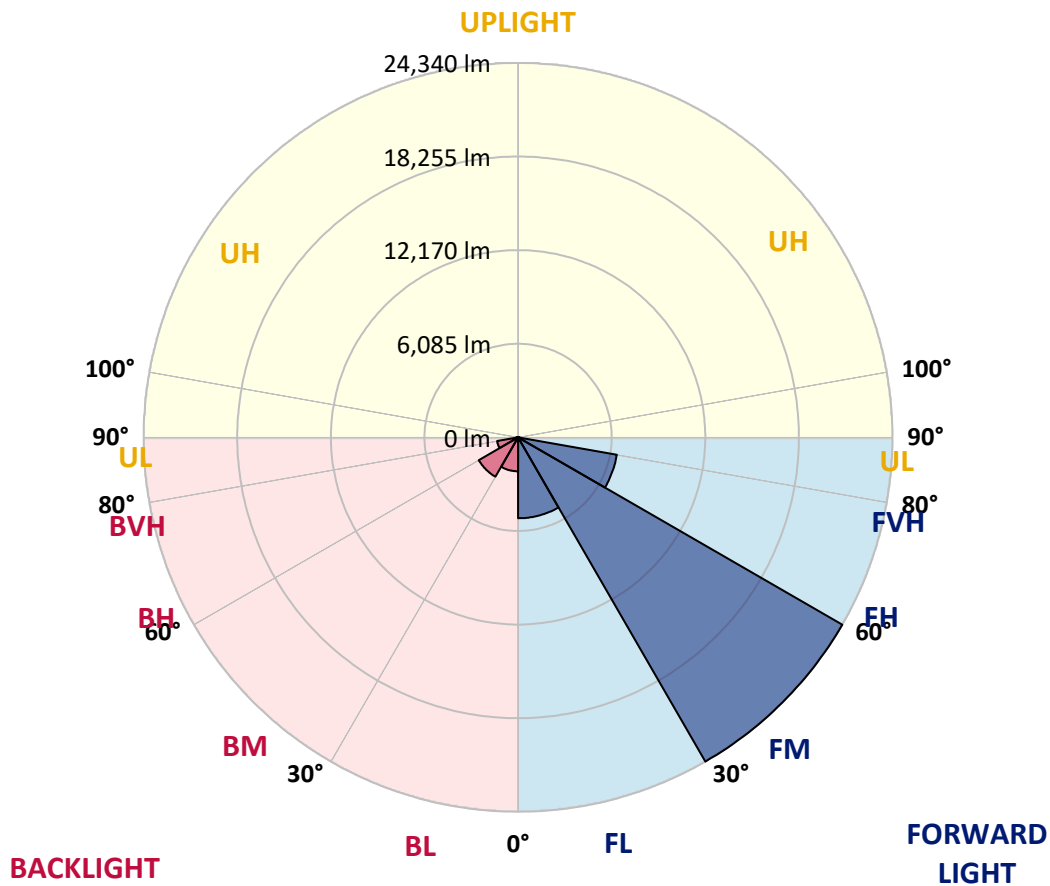
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5261.1	12.3			
FM (30°-60°)	24339.7	56.8			
FH (60°-80°)	6522.0	15.2			G3/7500
FVH (80°-90°)	103.2	0.2			G2/225
BL (0°-30°)	2207.8	5.1	B3/2500		
BM (30°-60°)	2950.5	6.9	B3/5000		
BH (60°-80°)	1384.2	3.2	B3/2500		G3/2500
BVH (80°-90°)	112.4	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°	59°	65°	75°	85°
0°	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4
2.5°	11939.2	11839.6	11909.0	11785.3	11733.9	11598.1	11423.0	11305.3	11124.1	10888.7	10683.4
5°	13125.6	13056.2	13071.2	12938.4	12820.7	12594.3	12235.0	12035.8	11727.9	11254.0	10813.2
7.5°	13089.4	13170.9	13216.1	13330.9	13364.1	13342.9	13019.9	12742.2	12404.1	11691.7	11027.5
10°	11733.9	11887.9	12026.8	12419.2	12896.2	13499.9	13575.4	13409.3	13068.2	12250.1	11284.1
12.5°	10257.8	10375.5	10499.3	10970.2	11700.7	12908.2	13726.3	13829.0	13693.1	12802.6	11573.9
15°	9533.3	9587.6	9705.3	10016.3	10598.9	11939.2	13463.7	13913.5	14158.0	13388.2	11900.0
17.5°	9503.1	9527.2	9584.6	9750.6	10155.1	11190.6	12989.7	13744.4	14523.3	14007.1	12280.3
20°	10128.0	10064.6	10028.3	10025.3	10224.6	10940.0	12530.9	13472.7	14695.3	14641.0	12687.9
22.5°	10994.3	11015.5	10937.0	10743.8	10719.6	11118.1	12301.5	13198.0	14746.7	15202.5	13065.2
25°	12223.0	12328.6	12096.2	11727.9	11546.8	11634.3	12443.3	13113.5	14740.6	15670.4	13300.7
27.5°	13656.9	13738.4	13502.9	13019.9	12645.6	12434.3	12866.0	13364.1	14791.9	16074.9	13442.6
30°	15290.0	15317.2	14994.2	14487.0	13940.6	13487.8	13569.3	13880.3	15054.6	16606.2	13608.6
32.5°	17285.4	17400.2	16911.1	16108.1	15344.4	14764.8	14514.2	14713.5	15622.1	17234.1	13865.2
35°	19818.2	19857.4	19235.6	18085.4	17004.7	16201.7	15676.4	15782.1	16485.5	18112.6	14251.6
37.5°	22206.0	22245.3	21584.2	20515.5	18969.9	17871.1	17110.4	17062.1	17590.3	19353.3	14882.5
40°	23721.4	23833.1	23537.3	22867.1	21391.0	19908.7	18876.3	18710.3	19039.3	20871.7	15761.0
42.5°	24536.5	24584.8	24578.8	24666.3	23787.9	22314.7	20868.7	20536.6	20757.0	22510.9	16648.5
45°	24542.5	24663.3	24986.3	25828.5	25867.8	24950.1	23386.4	22867.1	22664.9	24162.2	17575.2
47.5°	23443.7	23573.5	24461.0	26118.3	27340.9	27549.2	26402.1	25360.6	24509.3	25584.0	18336.0
50°	20117.0	20443.1	22133.6	25064.8	27630.7	29632.2	29279.0	27866.2	26148.5	26682.8	18812.9
52.5°	17228.1	17216.0	18257.5	22088.3	26420.2	30549.9	32062.3	30444.2	27769.6	27380.2	18933.7
55°	12615.4	12684.8	13750.5	16893.0	23190.1	29662.4	33592.8	32817.0	29629.2	27751.5	18885.4
57.5°	6541.7	6885.8	7978.6	10780.0	17620.5	26607.4	33185.3	33701.5	31518.9	28014.1	18948.8
60°	3305.5	3239.1	3631.6	5147.0	10209.5	20781.2	30673.7	32318.9	31860.0	28219.4	18988.0
62.5°	2206.7	2188.6	2079.9	2384.8	4171.9	12307.5	26148.5	28454.9	29490.3	27736.4	18486.9
65°	1910.9	1874.7	1675.4	1663.3	2025.6	5104.7	19166.1	22369.0	24373.5	25590.1	17288.5
67.5°	1720.7	1666.4	1464.1	1364.5	1455.0	2242.9	10801.1	15003.3	17997.9	21641.5	14662.1
70°	1536.6	1509.4	1307.1	1162.2	1153.2	1367.5	3978.7	7743.1	11012.4	14764.8	10719.6
72.5°	1376.6	1328.3	1156.2	1017.3	947.9	969.0	1726.7	2982.5	5699.4	9210.2	6411.9
75°	1192.4	1156.2	1005.2	866.4	781.9	709.4	1053.5	1379.6	2599.2	4377.2	3027.8
77.5°	920.7	896.6	793.9	688.3	640.0	528.3	640.0	869.4	1201.5	1844.5	1575.8
80°	534.3	549.4	591.7	537.3	470.9	377.3	416.6	501.1	721.5	999.2	893.6
82.5°	268.7	286.8	383.4	310.9	280.7	220.4	247.5	295.8	377.3	552.4	350.2
85°	21.1	21.1	69.4	78.5	96.6	78.5	99.6	120.8	172.1	220.4	117.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.1	15.1	27.2	51.3	33.2
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°	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4	10526.4
2.5°	10544.5	10390.6	10206.4	10055.5	9823.1	9699.3	9542.3	9349.1	9270.6	9234.4	9213.3
5°	10565.7	10294.0	9901.5	9539.3	9137.8	8820.8	8467.6	8099.3	7888.0	7836.7	7800.5
7.5°	10644.2	10263.8	9638.9	9041.2	8295.6	7604.3	6931.1	6263.9	5922.8	5793.0	5780.9
10°	10752.8	10251.7	9373.3	8380.1	7121.3	6028.5	5240.6	4718.3	4498.0	4425.5	4401.4
12.5°	10888.7	10242.7	9023.1	7462.4	5765.8	4733.4	4283.6	4199.1	4229.3	4223.3	4223.3
15°	11060.7	10254.7	8600.5	6423.9	4664.0	4108.5	4117.6	4217.2	4310.8	4325.9	4325.9
17.5°	11247.9	10242.7	7987.6	5382.5	4002.9	3960.6	4099.5	4238.3	4322.9	4334.9	4334.9
20°	11450.2	10185.3	7214.8	4401.4	3713.1	3867.0	4018.0	4126.6	4178.0	4190.0	4190.0
22.5°	11570.9	10022.3	6375.6	3725.2	3528.9	3719.1	3818.7	3930.4	3936.5	3839.9	3836.8
25°	11552.8	9717.4	5418.7	3290.5	3332.7	3498.7	3625.5	3547.0	3450.4	3396.1	3387.1
27.5°	11438.1	9258.5	4443.6	2961.4	3100.3	3287.4	3248.2	3181.8	3157.6	3097.3	3091.2
30°	11293.2	8694.0	3568.2	2704.8	2858.8	3030.8	2970.5	2964.4	2940.3	2873.9	2873.9
32.5°	11154.3	8111.4	2907.1	2514.6	2704.8	2716.9	2801.4	2807.4	2795.4	2680.7	2668.6
35°	11115.1	7528.8	2460.3	2363.7	2553.9	2547.8	2668.6	2665.6	2457.3	2297.3	2294.3
37.5°	11232.8	6937.1	2194.6	2239.9	2345.6	2424.1	2520.7	2345.6	2276.1	2179.5	2173.5
40°	11483.4	6390.7	2058.8	2167.5	2212.8	2327.5	2176.5	2188.6	2170.5	2098.0	2089.0
42.5°	11815.4	5925.8	1983.3	2143.3	2137.3	2167.5	2001.4	2049.7	2076.9	2022.6	2013.5
45°	12135.4	5521.3	1944.1	2052.8	2082.9	1907.9	1874.7	1919.9	1962.2	1941.1	1932.0
47.5°	12370.9	5171.1	1923.0	1929.0	2013.5	1820.3	1766.0	1787.1	1838.4	1847.5	1844.5
50°	12443.3	4872.3	1898.8	1826.4	1808.2	1732.8	1690.5	1684.5	1744.8	1787.1	1793.1
52.5°	12304.5	4606.6	1835.4	1735.8	1648.2	1660.3	1645.2	1615.0	1675.4	1732.8	1738.8
55°	12099.2	4455.7	1735.8	1648.2	1545.6	1593.9	1599.9	1572.8	1612.0	1651.3	1651.3
57.5°	12114.3	4543.2	1639.2	1566.7	1455.0	1518.4	1551.6	1539.6	1539.6	1569.8	1572.8
60°	12213.9	4670.0	1575.8	1464.1	1364.5	1430.9	1506.4	1494.3	1467.1	1506.4	1506.4
62.5°	11927.1	4501.0	1533.5	1364.5	1267.9	1346.4	1436.9	1430.9	1400.7	1464.1	1470.1
65°	11081.9	4048.2	1485.2	1240.7	1171.3	1261.8	1340.3	1361.5	1334.3	1418.8	1433.9
67.5°	9288.7	3405.2	1391.6	1123.0	1074.7	1159.2	1234.7	1264.9	1243.7	1343.3	1355.4
70°	6925.0	2756.1	1243.7	993.2	956.9	1032.4	1101.8	1113.9	1116.9	1234.7	1246.7
72.5°	4416.5	2143.3	1047.5	848.3	821.1	878.5	929.8	978.1	999.2	1110.9	1107.9
75°	2463.3	1593.9	842.2	718.5	670.2	715.4	775.8	833.2	893.6	1056.6	1074.7
77.5°	1418.8	1120.0	667.1	576.6	519.2	567.5	618.8	700.4	881.5	1023.4	1005.2
80°	800.0	727.5	504.1	422.6	386.4	422.6	461.9	615.8	694.3	754.7	763.7
82.5°	374.3	407.5	344.1	259.6	259.6	283.8	320.0	477.0	525.3	428.7	374.3
85°	135.8	184.1	169.1	132.8	117.7	114.7	199.2	271.7	169.1	150.9	129.8
87.5°	36.2	51.3	48.3	33.2	18.1	15.1	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)