

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: P641215

Luminaire Tested: GWS-SA5F-740-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641215  
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-740-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (80) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

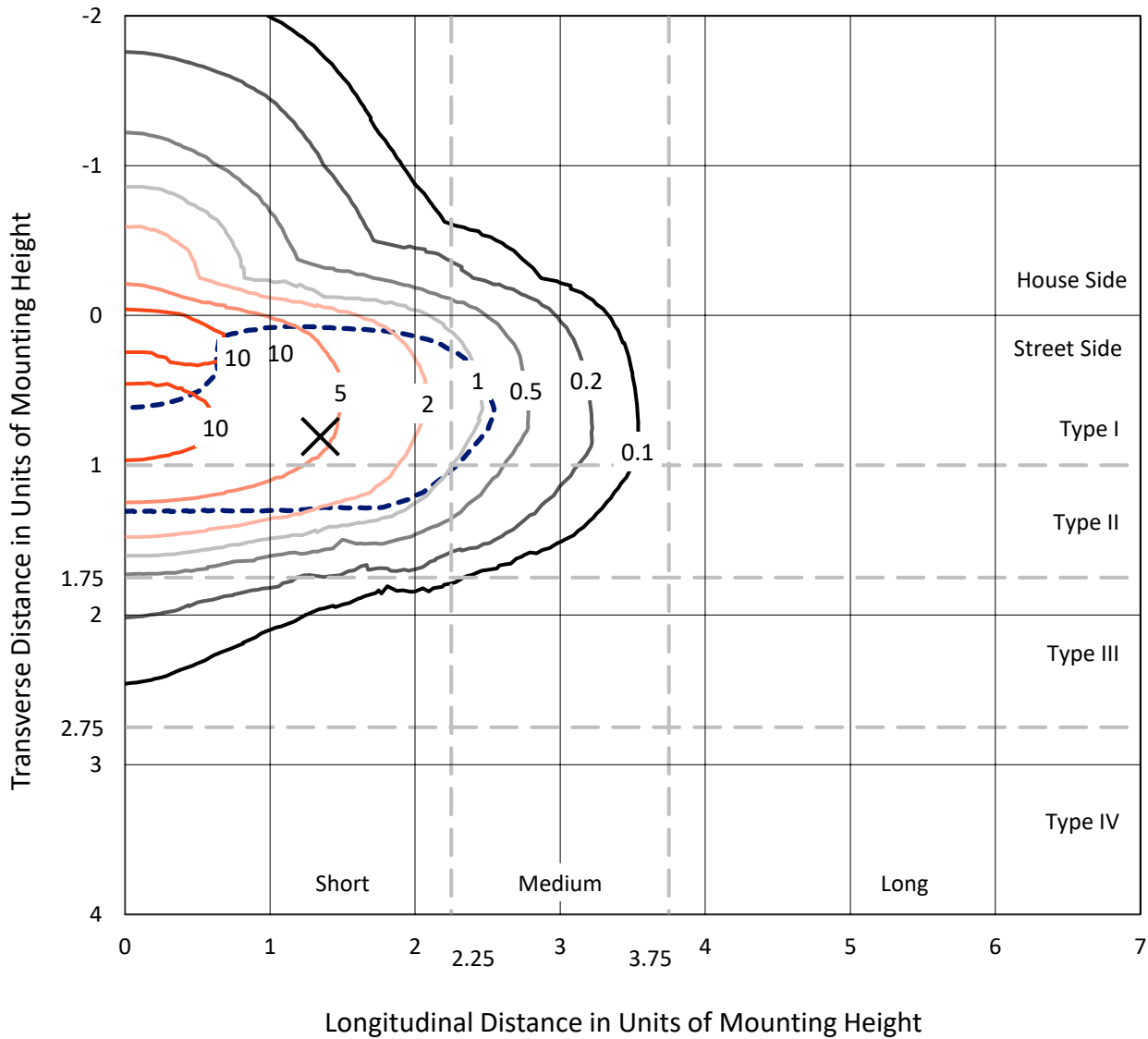
Lumens per Lamp: N/A  
Luminaire Lumens: 42502.8 lumens  
Efficiency: N/A  
Efficacy: 137.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

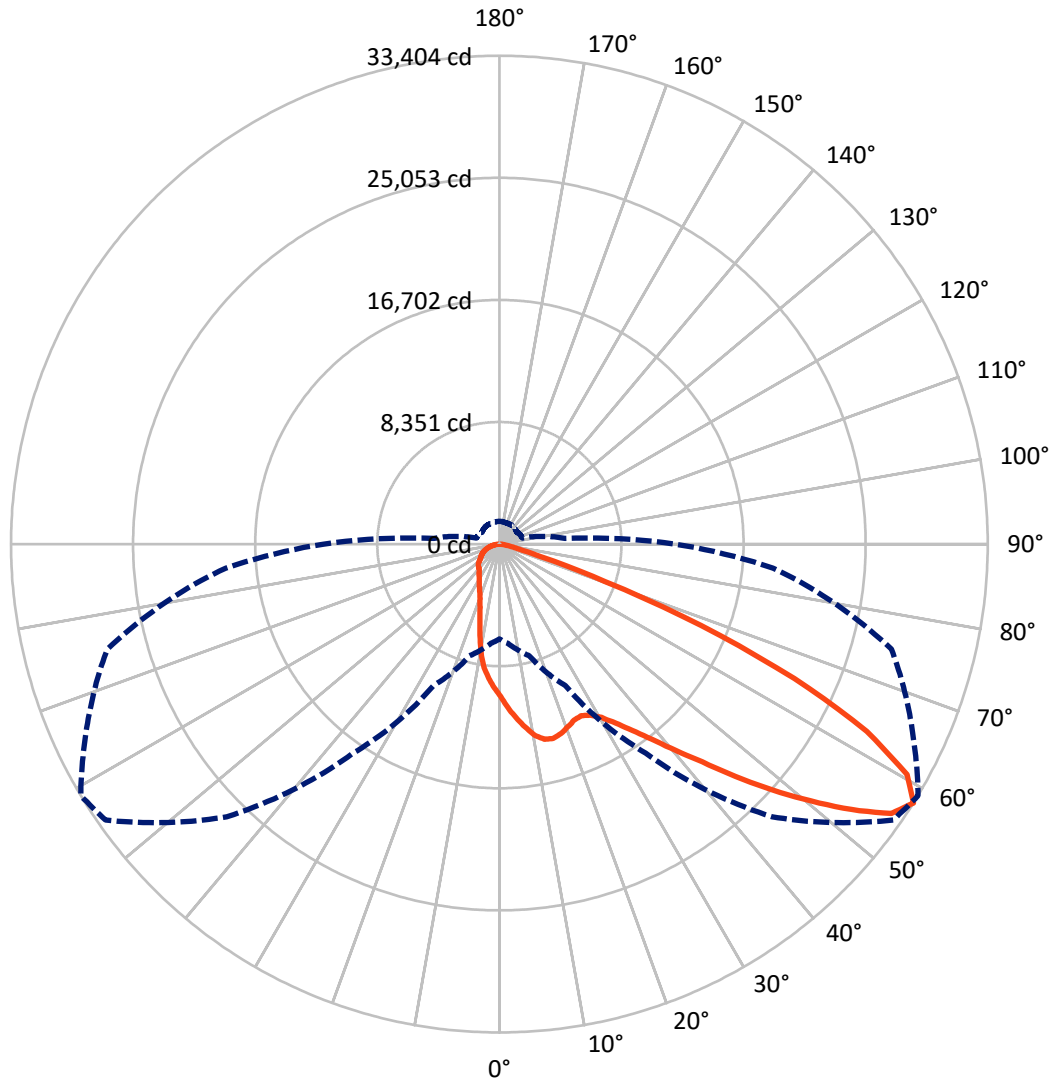
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.2 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	6596.2	0.0	6596.2
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	35906.6	0.0	35906.6
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	42502.8	0.0	42502.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	968.8	2.3
10°-20°	2454.9	5.8
20°-30°	3979.4	9.4
30°-40°	6401.4	15.1
40°-50°	9940.7	23.4
50°-60°	10707.5	25.2
60°-70°	6214.2	14.6
70°-80°	1622.3	3.8
80°-90°	213.7	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°	42502.8	100.0
0°-180°	42502.8	100.0

**Coefficient of Utilization**



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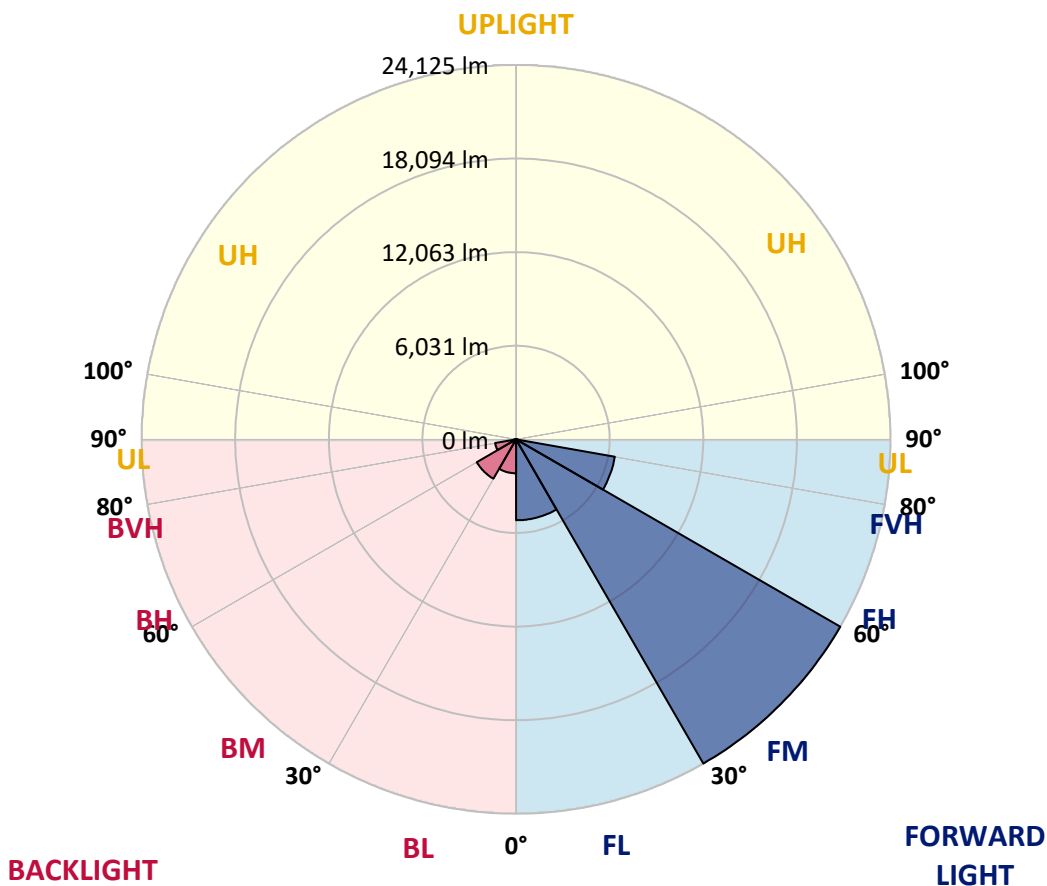
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5214.7	12.3			
FM (30°-60°)	24125.1	56.8			
FH (60°-80°)	6464.5	15.2			G3/7500
FVH (80°-90°)	102.3	0.2			G2/225
BL (0°-30°)	2188.4	5.1	B3/2500		
BM (30°-60°)	2924.5	6.9	B3/5000		
BH (60°-80°)	1372.0	3.2	B3/2500		G3/2500
BVH (80°-90°)	111.4	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°	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6
2.5°	11833.9	11735.2	11804.0	11681.3	11630.4	11495.8	11322.3	11205.6	11026.0	10792.6	10589.2
5°	13009.8	12941.0	12956.0	12824.3	12707.6	12483.2	12127.1	11929.7	11624.5	11154.7	10717.8
7.5°	12973.9	13054.7	13099.6	13213.3	13246.2	13225.3	12905.1	12629.8	12294.7	11588.6	10930.3
10°	11630.4	11783.0	11920.7	12309.7	12782.4	13380.8	13455.6	13291.1	12953.0	12142.1	11184.6
12.5°	10167.3	10284.0	10406.7	10873.4	11597.5	12794.4	13605.3	13707.0	13572.3	12689.7	11471.9
15°	9449.2	9503.0	9619.7	9927.9	10505.4	11833.9	13344.9	13790.8	14033.1	13270.1	11795.0
17.5°	9419.3	9443.2	9500.0	9664.6	10065.6	11091.9	12875.2	13623.2	14395.2	13883.5	12172.0
20°	10038.6	9975.8	9939.9	9936.9	10134.4	10843.5	12420.4	13353.9	14565.7	14511.9	12576.0
22.5°	10897.4	10918.3	10840.5	10649.0	10625.1	11020.0	12193.0	13081.6	14616.6	15068.4	12950.0
25°	12115.2	12219.9	11989.5	11624.5	11444.9	11531.7	12333.6	12997.9	14610.6	15532.2	13183.4
27.5°	13536.4	13617.2	13383.8	12905.1	12534.1	12324.6	12752.5	13246.2	14661.5	15933.1	13324.0
30°	15155.2	15182.1	14862.0	14359.3	13817.7	13368.9	13449.7	13757.9	14921.8	16459.8	13488.6
32.5°	17133.0	17246.7	16762.0	15966.1	15209.0	14634.6	14386.2	14583.7	15484.3	17082.1	13742.9
35°	19643.4	19682.3	19065.9	17925.9	16854.7	16058.8	15538.2	15642.9	16340.1	17952.8	14125.9
37.5°	22010.2	22049.1	21393.8	20334.6	18802.6	17713.5	16959.4	16911.6	17435.2	19182.6	14751.2
40°	23512.2	23622.9	23329.7	22665.5	21202.3	19733.2	18709.8	18545.3	18871.4	20687.6	15622.0
42.5°	24320.1	24368.0	24362.0	24448.8	23578.1	22117.9	20684.7	20355.5	20573.9	22312.4	16501.6
45°	24326.1	24445.8	24765.9	25600.7	25639.6	24730.0	23180.1	22665.5	22465.0	23949.1	17420.2
47.5°	23236.9	23365.6	24245.3	25888.0	27099.8	27306.3	26169.2	25137.0	24293.2	25358.4	18174.3
50°	19939.6	20262.8	21938.4	24843.7	27387.0	29370.8	29020.8	27620.4	25917.9	26447.5	18647.0
52.5°	17076.1	17064.2	18096.5	21893.5	26187.2	30280.4	31779.5	30175.7	27524.7	27138.7	18766.7
55°	12504.1	12573.0	13629.2	16744.0	22985.6	29400.8	33296.5	32527.5	29367.8	27506.7	18718.8
57.5°	6484.0	6825.1	7908.2	10684.9	17465.1	26372.7	32892.6	33404.2	31240.9	27767.0	18781.7
60°	3276.4	3210.6	3599.5	5101.6	10119.4	20597.9	30403.1	32033.8	31579.0	27970.5	18820.6
62.5°	2187.3	2169.3	2061.6	2363.8	4135.1	12198.9	25917.9	28203.9	29230.2	27491.8	18323.9
65°	1894.0	1858.1	1660.6	1648.7	2007.7	5059.7	18997.1	22171.7	24158.5	25364.4	17136.0
67.5°	1705.5	1651.7	1451.2	1352.4	1442.2	2223.2	10705.9	14870.9	17839.1	21450.6	14532.8
70°	1523.0	1496.1	1295.6	1152.0	1143.0	1355.4	3943.6	7674.8	10915.3	14634.6	10625.1
72.5°	1364.4	1316.5	1146.0	1008.4	939.5	960.5	1711.5	2956.2	5649.2	9129.0	6355.3
75°	1181.9	1146.0	996.4	858.7	775.0	703.2	1044.3	1367.4	2576.2	4338.6	3001.1
77.5°	912.6	888.7	786.9	682.2	634.3	523.6	634.3	861.7	1190.9	1828.2	1561.9
80°	529.6	544.6	586.5	532.6	466.8	374.0	412.9	496.7	715.1	990.4	885.7
82.5°	266.3	284.3	380.0	308.2	278.3	218.4	245.4	293.2	374.0	547.6	347.1
85°	20.9	20.9	68.8	77.8	95.7	77.8	98.7	119.7	170.6	218.4	116.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	15.0	26.9	50.9	32.9
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°	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6	10433.6
2.5°	10451.5	10298.9	10116.4	9966.8	9736.4	9613.7	9458.2	9266.7	9188.9	9153.0	9132.0
5°	10472.5	10203.2	9814.2	9455.2	9057.2	8743.0	8392.9	8027.9	7818.5	7767.6	7731.7
7.5°	10550.3	10173.3	9553.9	8961.5	8222.4	7537.2	6870.0	6208.7	5870.6	5741.9	5729.9
10°	10658.0	10161.3	9290.6	8306.2	7058.5	5975.3	5194.4	4676.7	4458.3	4386.5	4362.5
12.5°	10792.6	10152.3	8943.5	7396.6	5715.0	4691.7	4245.8	4162.1	4192.0	4186.0	4186.0
15°	10963.2	10164.3	8524.6	6367.3	4622.9	4072.3	4081.3	4180.0	4272.8	4287.7	4287.7
17.5°	11148.7	10152.3	7917.2	5335.0	3967.6	3925.7	4063.3	4201.0	4284.7	4296.7	4296.7
20°	11349.2	10095.5	7151.2	4362.5	3680.3	3832.9	3982.5	4090.3	4141.1	4153.1	4153.1
22.5°	11468.9	9933.9	6319.4	3692.3	3497.8	3686.3	3785.1	3895.8	3901.7	3806.0	3803.0
25°	11450.9	9631.7	5370.9	3261.4	3303.3	3467.9	3593.6	3515.8	3420.0	3366.2	3357.2
27.5°	11337.2	9176.9	4404.4	2935.3	3072.9	3258.4	3219.5	3153.7	3129.8	3069.9	3063.9
30°	11193.6	8617.4	3536.7	2681.0	2833.6	3004.1	2944.3	2938.3	2914.3	2848.5	2848.5
32.5°	11056.0	8039.9	2881.4	2492.5	2681.0	2692.9	2776.7	2782.7	2770.7	2657.0	2645.1
35°	11017.1	7462.4	2438.6	2342.8	2531.3	2525.4	2645.1	2642.1	2435.6	2277.0	2274.0
37.5°	11133.7	6875.9	2175.3	2220.2	2324.9	2402.7	2498.4	2324.9	2256.1	2160.3	2154.3
40°	11382.1	6334.4	2040.6	2148.4	2193.2	2306.9	2157.3	2169.3	2151.3	2079.5	2070.6
42.5°	11711.2	5873.6	1965.8	2124.4	2118.4	2148.4	1983.8	2031.7	2058.6	2004.7	1995.8
45°	12028.4	5472.6	1926.9	2034.7	2064.6	1891.0	1858.1	1903.0	1944.9	1923.9	1915.0
47.5°	12261.8	5125.5	1906.0	1912.0	1995.8	1804.3	1750.4	1771.3	1822.2	1831.2	1828.2
50°	12333.6	4829.3	1882.1	1810.2	1792.3	1717.5	1675.6	1669.6	1729.5	1771.3	1777.3
52.5°	12196.0	4566.0	1819.2	1720.5	1633.7	1645.7	1630.7	1600.8	1660.6	1717.5	1723.5
55°	11992.5	4416.4	1720.5	1633.7	1532.0	1579.8	1585.8	1558.9	1597.8	1636.7	1636.7
57.5°	12007.5	4503.2	1624.7	1552.9	1442.2	1505.0	1538.0	1526.0	1526.0	1555.9	1558.9
60°	12106.2	4628.8	1561.9	1451.2	1352.4	1418.3	1493.1	1481.1	1454.2	1493.1	1493.1
62.5°	11821.9	4461.3	1520.0	1352.4	1256.7	1334.5	1424.3	1418.3	1388.4	1451.2	1457.2
65°	10984.1	4012.5	1472.1	1229.8	1160.9	1250.7	1328.5	1349.5	1322.5	1406.3	1421.3
67.5°	9206.8	3375.1	1379.4	1113.1	1065.2	1149.0	1223.8	1253.7	1232.8	1331.5	1343.5
70°	6864.0	2731.8	1232.8	984.4	948.5	1023.3	1092.1	1104.1	1107.1	1223.8	1235.8
72.5°	4377.5	2124.4	1038.3	840.8	813.9	870.7	921.6	969.5	990.4	1101.1	1098.1
75°	2441.6	1579.8	834.8	712.1	664.3	709.1	769.0	825.8	885.7	1047.2	1065.2
77.5°	1406.3	1110.1	661.3	571.5	514.6	562.5	613.4	694.2	873.7	1014.3	996.4
80°	792.9	721.1	499.7	418.9	383.0	418.9	457.8	610.4	688.2	748.0	757.0
82.5°	371.0	403.9	341.1	257.3	257.3	281.3	317.2	472.8	520.6	424.9	371.0
85°	134.6	182.5	167.6	131.7	116.7	113.7	197.5	269.3	167.6	149.6	128.7
87.5°	35.9	50.9	47.9	32.9	18.0	15.0	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)