

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: P641348

Luminaire Tested: GWS-SA5F-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641348  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5F-760-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

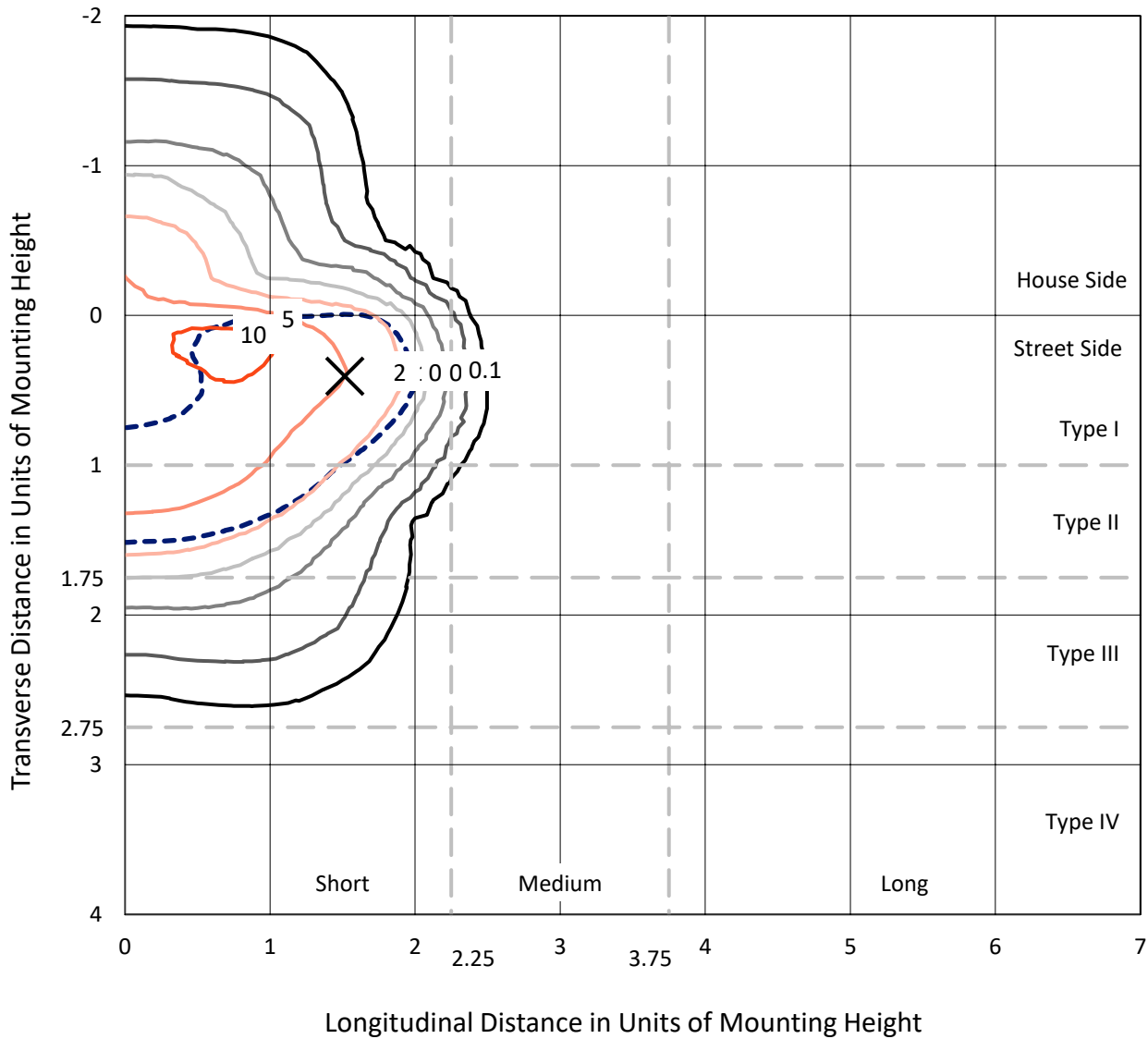
Lumens per Lamp: N/A  
Luminaire Lumens: 25013.1 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 310.3  
Input Voltage (V): 120  
Input Current (Ain): 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

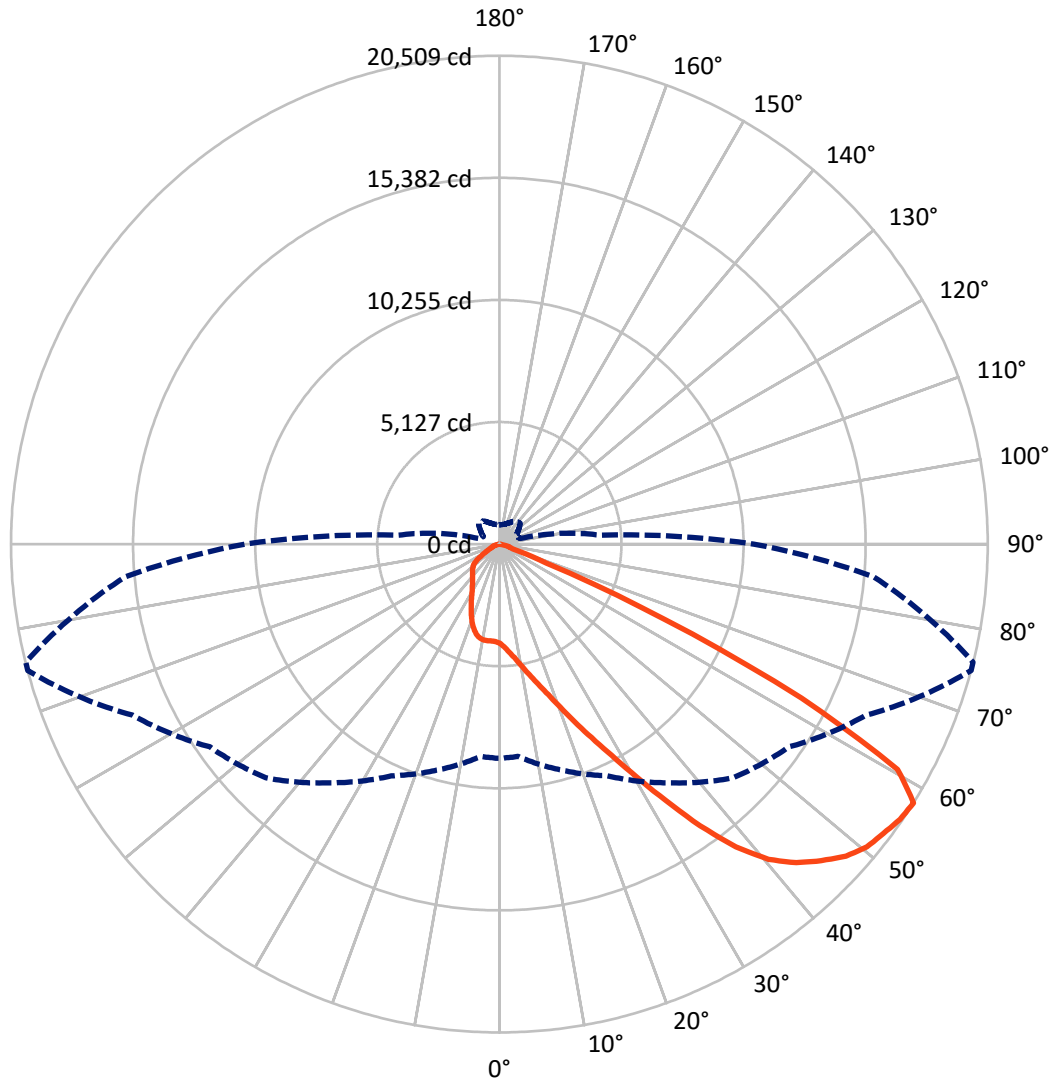
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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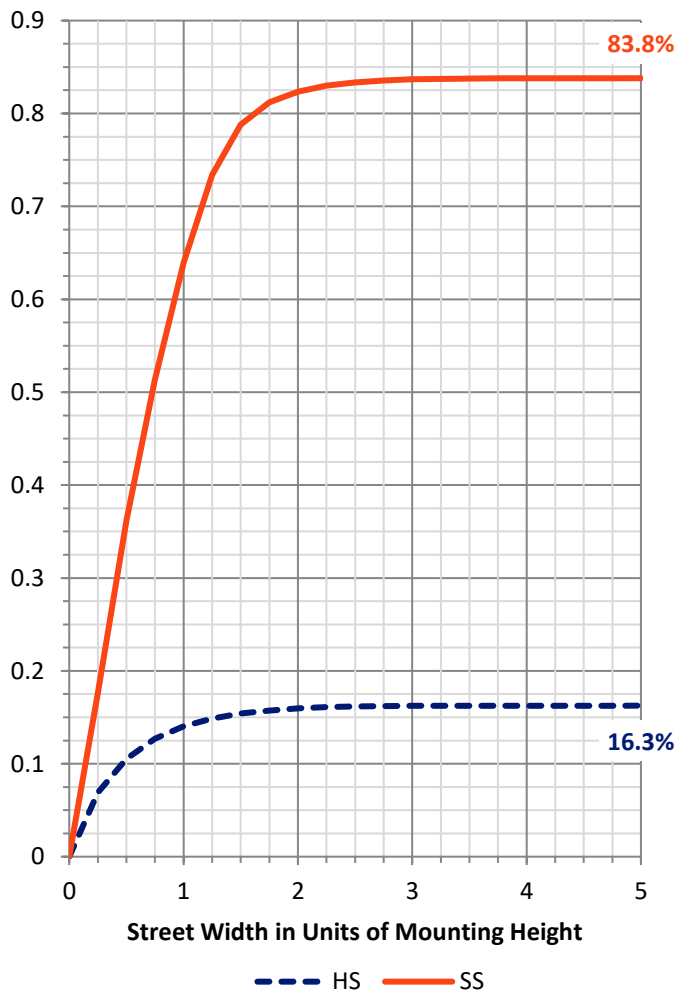
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4085.8	0.0	4085.8
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	20927.3	0.0	20927.3
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	25013.1	0.0	25013.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	424.5	1.7
10°-20°	1379.0	5.5
20°-30°	2525.3	10.1
30°-40°	4189.7	16.8
40°-50°	6398.7	25.6
50°-60°	7190.1	28.7
60°-70°	2652.0	10.6
70°-80°	253.5	1.0
80°-90°	0.2	0.0
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°	25013.1	100.0
0°-180°	25013.1	100.0

**Coefficient of Utilization**



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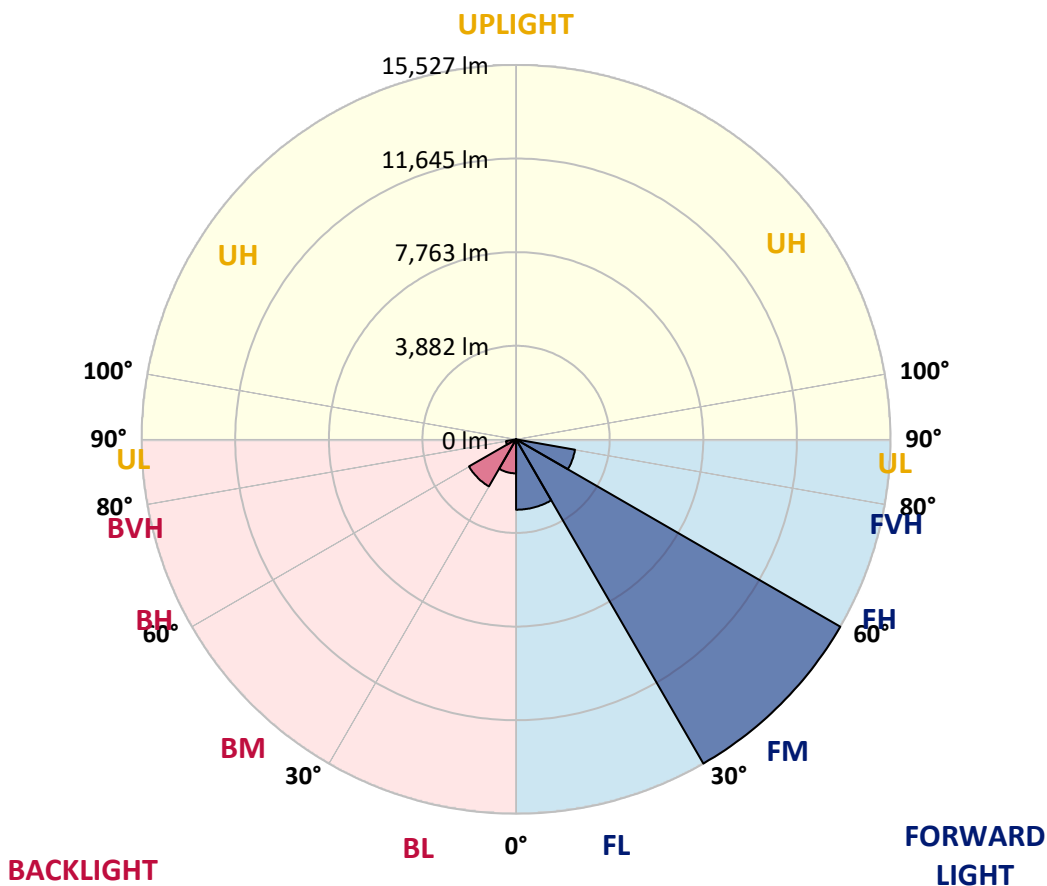
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2919.0	11.7			
FM (30°-60°)	15527.0	62.1			
FH (60°-80°)	2481.2	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1409.9	5.6	B3/2500		
BM (30°-60°)	2251.6	9.0	B2/2500		
BH (60°-80°)	424.3	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8
2.5°	4660.9	4709.2	4694.1	4663.9	4645.8	4582.4	4543.1	4428.4	4346.9	4337.9	4262.4
5°	5249.5	5240.5	5228.4	5192.2	5162.0	5062.4	4944.6	4751.4	4579.4	4558.2	4398.2
7.5°	5572.5	5578.5	5584.6	5578.5	5557.4	5482.0	5352.1	5125.7	4863.1	4845.0	4591.4
10°	5705.3	5717.4	5747.6	5805.0	5856.3	5850.2	5774.8	5542.3	5219.3	5189.1	4848.0
12.5°	5768.7	5783.8	5832.1	5940.8	6079.7	6188.3	6200.4	5992.1	5635.9	5587.6	5152.9
15°	5856.3	5871.4	5931.7	6073.6	6275.9	6490.2	6629.1	6496.2	6097.8	6046.4	5488.0
17.5°	5895.5	5916.6	6004.2	6191.3	6454.0	6783.0	7097.0	7084.9	6644.1	6604.9	5877.4
20°	5971.0	5986.1	6064.6	6266.8	6583.8	7057.7	7586.0	7776.2	7311.3	7253.9	6348.3
22.5°	6209.5	6215.5	6251.7	6378.5	6674.3	7256.9	8084.1	8582.2	8099.2	8023.7	6876.6
25°	6598.9	6595.8	6610.9	6632.1	6849.4	7459.2	8564.0	9490.8	9001.7	8920.2	7474.3
27.5°	7093.9	7093.9	7130.2	7069.8	7157.3	7709.7	9038.0	10535.2	10052.3	9937.5	8129.3
30°	7676.5	7673.5	7758.0	7661.4	7688.6	8105.2	9548.1	11673.3	11320.1	11178.2	8884.0
32.5°	8467.4	8449.3	8545.9	8413.1	8322.5	8702.9	10170.0	12862.7	12838.5	12621.2	9831.9
35°	9466.6	9436.4	9466.6	9336.8	9173.8	9539.1	10985.0	14049.0	14522.9	14293.5	10960.9
37.5°	10459.8	10556.4	10589.6	10366.2	10233.4	10598.6	11966.1	15111.6	16131.9	15893.4	12135.2
40°	11631.0	11600.8	11715.6	11465.0	11380.5	11785.0	12926.1	15902.5	17405.8	17179.4	13179.6
42.5°	12494.4	12548.7	12690.6	12551.7	12485.3	12865.7	13732.0	16364.3	18290.3	18066.9	13925.2
45°	13529.8	13569.0	13623.4	13508.7	13439.2	13813.5	14314.7	16566.6	18963.4	18721.9	14426.3
47.5°	14649.7	14679.9	14679.9	14444.5	14221.1	14375.0	14704.1	16681.3	19582.3	19349.8	14797.6
50°	15452.7	15467.8	15600.6	15434.6	14948.6	14710.1	14882.2	16793.0	19992.8	19775.5	14918.4
52.5°	14740.3	14722.2	15159.9	15504.0	15633.8	15159.9	15190.1	16956.0	20192.1	20004.9	15015.0
55°	12412.9	12382.7	12998.5	13834.7	14978.8	15585.5	15561.4	17052.6	20412.4	20297.7	15365.2
57.5°	8998.7	8947.4	9804.7	10734.5	12234.8	13880.0	14845.9	16998.3	20509.0	20500.0	15772.7
60°	5409.5	5367.2	6176.3	7154.3	8313.5	9967.7	11570.7	15226.3	19217.0	19235.1	14713.1
62.5°	3329.6	3368.9	4099.4	4597.5	5029.1	5527.2	6454.0	10242.4	14236.2	14353.9	10339.0
65°	2239.9	2270.1	2946.2	3574.1	3574.1	2922.1	2508.5	4896.3	7595.0	7395.8	4890.3
67.5°	1503.3	1536.5	2070.8	2804.4	2910.0	2037.6	1017.3	1461.0	2116.1	2052.7	1210.5
70°	884.5	920.7	1379.5	1922.9	2119.1	1418.8	679.2	618.8	600.7	582.6	470.9
72.5°	395.4	410.5	703.4	978.1	893.5	597.7	480.0	495.1	467.9	458.8	383.4
75°	120.7	126.8	181.1	211.3	214.3	214.3	289.8	389.4	368.3	371.3	295.8
77.5°	30.2	30.2	48.3	45.3	24.1	21.1	54.3	87.5	90.6	81.5	60.4
80°	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8	4171.8
2.5°	4229.2	4150.7	4099.4	4026.9	3975.6	3921.3	3873.0	3833.7	3812.6	3806.6	3809.6
5°	4325.8	4202.0	4081.3	3942.4	3845.8	3755.3	3682.8	3625.5	3598.3	3589.2	3589.2
7.5°	4473.7	4301.6	4087.3	3870.0	3707.0	3565.1	3480.6	3417.2	3393.0	3387.0	3368.9
10°	4666.9	4431.4	4078.3	3740.2	3510.7	3362.8	3302.5	3284.3	3293.4	3296.4	3293.4
12.5°	4899.3	4567.3	4020.9	3550.0	3302.5	3211.9	3217.9	3266.2	3320.6	3347.7	3353.8
15°	5146.9	4691.1	3891.1	3323.6	3124.3	3121.3	3208.9	3320.6	3426.2	3471.5	3483.6
17.5°	5424.6	4790.7	3691.9	3082.1	2970.4	3057.9	3214.9	3387.0	3528.9	3604.3	3619.4
20°	5729.5	4872.2	3438.3	2855.7	2834.6	2991.5	3208.9	3420.2	3595.3	3679.8	3694.9
22.5°	6046.4	4929.5	3145.5	2647.4	2710.8	2916.1	3151.5	3356.8	3522.8	3619.4	3631.5
25°	6408.7	4935.6	2846.6	2472.3	2596.1	2813.4	3012.7	3181.7	3320.6	3405.1	3414.1
27.5°	6725.7	4863.1	2581.0	2330.4	2490.4	2686.6	2819.5	2913.0	3009.6	3057.9	3061.0
30°	7090.9	4736.3	2330.4	2215.7	2381.8	2529.7	2596.1	2617.2	2626.3	2635.3	2623.2
32.5°	7525.6	4582.4	2143.3	2104.0	2258.0	2357.6	2375.7	2333.5	2282.1	2209.7	2191.6
35°	8059.9	4443.5	1989.3	1995.4	2122.1	2182.5	2167.4	2076.9	1977.2	1889.7	1874.6
37.5°	8639.5	4325.8	1871.6	1889.7	1974.2	2016.5	1971.2	1871.6	1826.3	1750.8	1753.9
40°	9152.7	4229.2	1765.9	1784.0	1823.3	1862.5	1790.1	1723.7	1808.2	1802.2	1808.2
42.5°	9517.9	4147.7	1675.4	1666.3	1693.5	1720.7	1666.3	1633.1	1775.0	1735.7	1756.9
45°	9732.3	4072.2	1599.9	1545.6	1587.8	1636.1	1599.9	1557.6	1605.9	1424.8	1409.7
47.5°	9877.2	4030.0	1533.5	1427.8	1503.3	1587.8	1512.4	1409.7	1340.3	1183.3	1171.3
50°	9892.3	4008.8	1455.0	1307.1	1403.7	1494.3	1406.7	1264.8	1165.2	1095.8	1086.7
52.5°	9970.8	4051.1	1346.3	1153.1	1258.8	1403.7	1343.3	1201.4	1065.6	1005.2	993.2
55°	10320.9	4229.2	1165.2	941.8	1095.8	1334.3	1292.0	1071.6	941.8	905.6	896.6
57.5°	10683.2	4265.4	917.7	745.6	953.9	1234.6	1180.3	987.1	860.3	818.1	809.0
60°	9768.5	3513.8	688.3	615.8	842.2	1141.1	1092.8	935.8	787.9	736.6	727.5
62.5°	6417.7	1898.8	546.4	522.2	709.4	966.0	996.2	845.2	703.4	649.0	646.0
65°	2958.3	881.5	419.6	413.6	555.4	769.8	857.3	739.6	594.7	546.4	546.4
67.5°	806.0	437.7	329.0	304.9	377.3	516.2	624.9	552.4	422.6	365.3	362.2
70°	401.5	353.2	295.8	262.6	271.7	320.0	368.3	307.9	214.3	175.1	172.1
72.5°	329.0	289.8	250.6	223.4	205.3	196.2	190.2	154.0	99.6	75.5	72.4
75°	244.5	208.3	178.1	144.9	123.8	114.7	102.6	75.5	42.3	24.1	21.1
77.5°	54.3	51.3	48.3	36.2	33.2	27.2	21.1	15.1	6.0	0.0	0.0
80°	3.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)