

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: P641283

Luminaire Tested: GWS-SA5F-750-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41003.8 lumens
Efficiency: N/A
Efficacy: 132.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

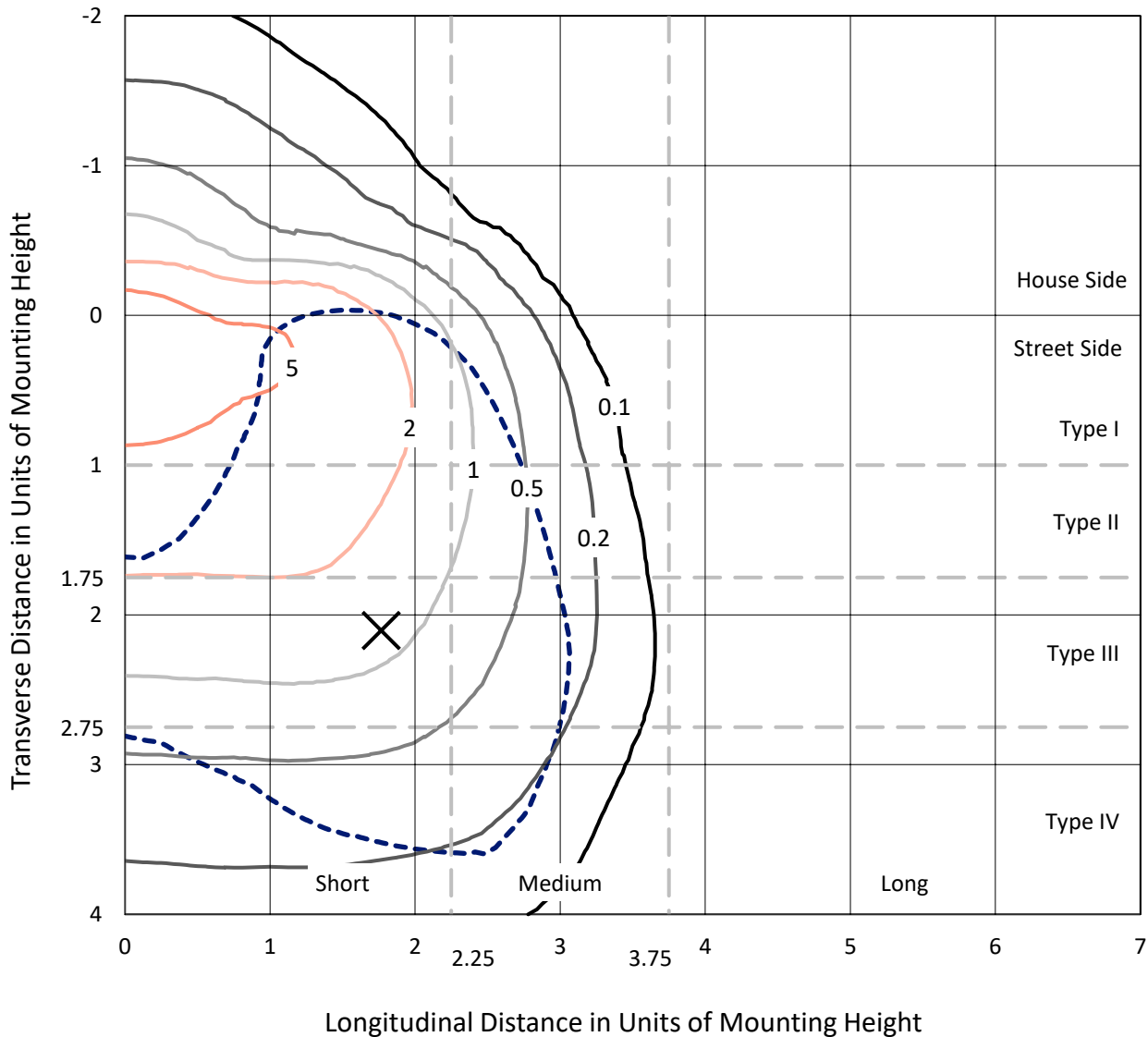
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

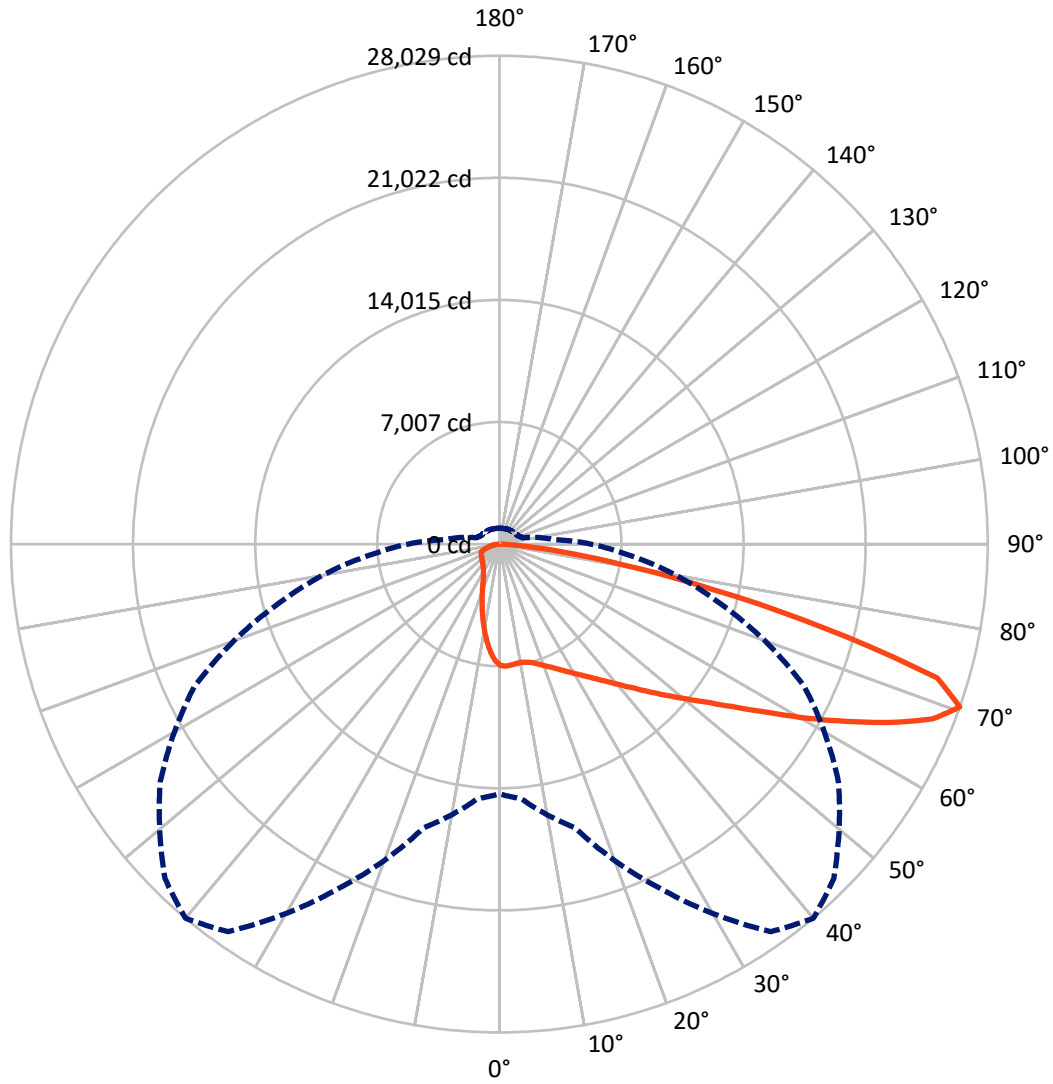
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6315.6	0.0	6315.6
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	34688.2	0.0	34688.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	41003.8	0.0	41003.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.1	1.5
10°-20°	1603.4	3.9
20°-30°	2517.5	6.1
30°-40°	3785.2	9.2
40°-50°	5842.5	14.2
50°-60°	8676.7	21.2
60°-70°	10936.8	26.7
70°-80°	6324.7	15.4
80°-90°	701.9	1.7
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°	41003.8	100.0
0°-180°	41003.8	100.0

Coefficient of Utilization



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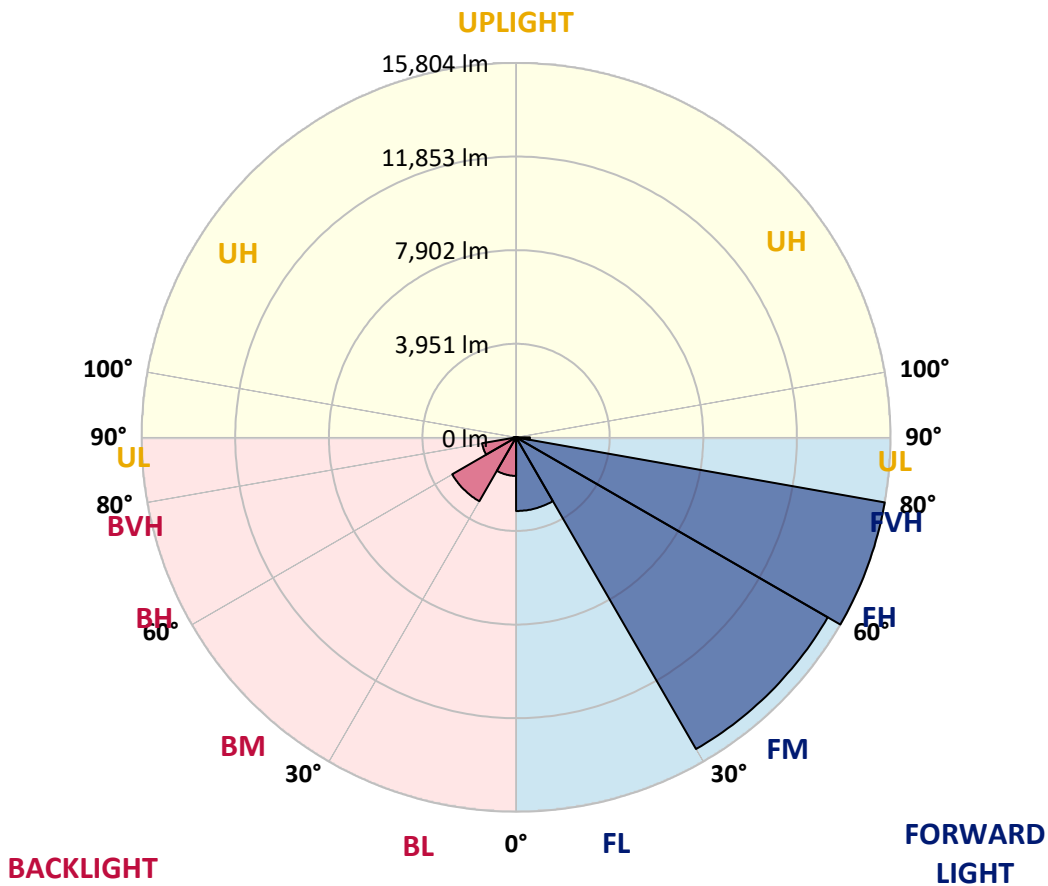
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3108.4	7.6			
FM (30°-60°)	15191.4	37.0			
FH (60°-80°)	15803.8	38.5			G5
FVH (80°-90°)	584.6	1.4			G4/750
BL (0°-30°)	1627.6	4.0	B3/2500		
BM (30°-60°)	3113.0	7.6	B3/5000		
BH (60°-80°)	1457.6	3.6	B3/2500		G3/2500
BVH (80°-90°)	117.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9
2.5°	7005.8	7018.0	7027.2	7039.4	7033.3	7014.9	7030.2	7030.2	6996.6	6959.9	6926.2
5°	7014.9	7030.2	7027.2	7024.1	6999.6	6969.0	6969.0	6950.7	6892.5	6834.4	6779.3
7.5°	6996.6	6993.5	6990.5	6981.3	6953.7	6920.1	6913.9	6877.2	6800.7	6721.1	6641.6
10°	6913.9	6910.9	6920.1	6941.5	6935.4	6904.8	6904.8	6871.1	6782.3	6684.4	6580.3
12.5°	6846.6	6846.6	6883.3	6941.5	6962.9	6950.7	6953.7	6929.2	6828.2	6711.9	6589.5
15°	6855.8	6858.9	6938.4	7033.3	7073.1	7063.9	7067.0	7039.4	6926.2	6809.9	6644.6
17.5°	6917.0	6932.3	7070.0	7201.6	7253.7	7241.4	7220.0	7174.1	7045.6	6913.9	6711.9
20°	7045.6	7070.0	7247.6	7412.8	7474.0	7446.5	7409.8	7317.9	7177.2	7033.3	6785.4
22.5°	7299.6	7314.9	7510.8	7673.0	7721.9	7688.3	7614.8	7483.2	7321.0	7171.0	6874.2
25°	7657.7	7676.0	7862.7	8012.7	8000.5	7960.7	7859.7	7697.5	7504.6	7345.5	7002.7
27.5°	8083.1	8113.7	8297.3	8416.7	8337.1	8279.0	8165.7	7969.9	7752.6	7608.7	7198.6
30°	8548.3	8560.6	8716.7	8836.0	8713.6	8634.0	8496.3	8285.1	8089.2	7982.1	7492.4
32.5°	8998.2	9010.5	9145.1	9212.5	9083.9	9025.8	8906.4	8683.0	8545.3	8487.1	7930.1
35°	9472.6	9469.6	9579.7	9637.9	9506.3	9481.8	9359.4	9188.0	9163.5	9240.0	8569.7
37.5°	9947.0	9919.5	9977.6	10054.1	9980.7	10005.2	9925.6	9867.4	9962.3	10161.3	9420.6
40°	10326.5	10326.5	10387.8	10482.6	10507.1	10614.2	10568.3	10644.8	10950.9	11425.3	10473.4
42.5°	10663.2	10666.3	10794.8	10941.7	11119.2	11284.5	11321.2	11520.2	12153.7	12897.5	11795.6
45°	11015.2	11018.2	11192.7	11406.9	11783.4	12098.6	12172.1	12618.9	13524.9	14430.8	13231.1
47.5°	11422.2	11388.6	11630.4	11988.5	12524.1	12977.0	13166.8	13800.3	14945.0	16059.1	14583.9
50°	11881.3	11810.9	12080.3	12698.5	13359.6	13980.9	14299.2	15024.6	16469.2	17561.8	15857.1
52.5°	12398.6	12358.8	12640.4	13393.3	14403.3	15119.5	15551.0	16502.9	17950.5	19058.5	16867.1
55°	13041.3	12946.4	13353.5	14311.5	15627.5	16539.6	17050.7	17965.9	19569.6	20417.4	17638.4
57.5°	13745.3	13641.2	14186.0	15459.2	17219.1	18219.9	18859.6	19612.5	21093.8	21458.0	18091.3
60°	14504.3	14470.6	15116.4	16805.9	19116.6	20279.7	20741.8	21424.4	22419.1	22061.0	17978.1
62.5°	15199.0	15186.8	16126.4	18265.8	21127.5	22406.8	22774.1	22954.7	23374.0	22021.2	17078.3
65°	15930.5	16034.6	17304.8	19958.3	23432.1	24687.0	24840.0	24380.9	23695.3	20977.5	15235.8
67.5°	16022.4	16224.4	18045.4	21543.7	25617.4	26801.9	26679.4	24922.6	22746.5	18073.0	11942.5
70°	14329.8	14681.8	16864.0	21785.5	27156.9	28029.2	27144.7	23756.5	19303.3	13093.3	7510.8
72.5°	11973.2	12276.2	14204.3	18578.0	25170.6	26281.6	25084.9	20108.3	13641.2	7510.8	3825.8
75°	9319.6	9671.6	11449.8	14767.5	18844.3	19288.0	18688.2	14023.8	7498.5	3097.3	1738.4
77.5°	5686.6	5940.7	7324.1	10005.2	13185.2	12521.0	10611.2	7862.7	3290.2	1484.4	1074.3
80°	2515.8	2671.9	3608.5	5374.5	7617.9	7201.6	5677.5	3357.5	1799.6	942.7	749.9
82.5°	1349.7	1450.7	1778.2	2127.1	3345.3	3498.3	2837.2	1934.3	967.2	538.7	428.5
85°	593.8	651.9	808.0	771.3	1098.8	1080.4	1089.6	1328.3	462.2	247.9	278.5
87.5°	0.0	0.0	0.0	0.0	3.1	3.1	33.7	177.5	45.9	73.5	64.3
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°	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9	6962.9
2.5°	6889.5	6834.4	6819.1	6800.7	6767.0	6708.9	6666.0	6617.1	6595.6	6571.2	6574.2
5°	6718.1	6650.7	6586.5	6503.8	6399.8	6283.5	6203.9	6112.1	6063.1	6017.2	6029.4
7.5°	6571.2	6467.1	6335.5	6161.0	5974.3	5766.2	5597.9	5466.3	5377.5	5316.3	5346.9
10°	6479.3	6356.9	6127.4	5842.7	5527.5	5209.2	4967.4	4740.9	4600.1	4489.9	4483.8
12.5°	6461.0	6301.8	5968.2	5555.0	5099.0	4673.6	4318.5	4012.5	3825.8	3688.0	3740.1
15°	6479.3	6277.3	5830.5	5288.8	4713.4	4138.0	3697.2	3345.3	3121.8	2996.3	2987.2
17.5°	6500.8	6252.9	5674.4	5001.1	4309.4	3651.3	3140.2	2766.8	2537.3	2411.8	2414.8
20°	6519.1	6216.1	5490.8	4685.8	3899.2	3198.4	2668.9	2313.8	2108.8	2017.0	2032.3
22.5°	6549.7	6179.4	5294.9	4349.1	3479.9	2760.7	2295.5	2007.8	1885.3	1824.1	1827.2
25°	6607.9	6158.0	5092.9	3981.9	3066.7	2411.8	2038.4	1845.6	1769.0	1732.3	1729.3
27.5°	6727.2	6176.3	4881.7	3626.8	2693.3	2145.5	1873.1	1747.6	1695.6	1671.1	1668.0
30°	6926.2	6249.8	4698.1	3265.7	2372.0	1937.4	1759.9	1683.3	1652.7	1631.3	1628.3
32.5°	7229.2	6387.5	4499.1	2929.0	2111.8	1784.3	1671.1	1631.3	1609.9	1597.6	1597.6
35°	7688.3	6638.5	4303.2	2635.2	1909.8	1665.0	1600.7	1585.4	1567.0	1560.9	1567.0
37.5°	8349.4	7039.4	4125.7	2378.1	1766.0	1573.2	1524.2	1530.3	1515.0	1524.2	1533.4
40°	9188.0	7575.0	3975.7	2166.9	1658.9	1505.8	1456.9	1478.3	1469.1	1478.3	1493.6
42.5°	10250.0	8239.2	3862.5	2001.6	1582.3	1450.7	1404.8	1426.2	1420.1	1432.4	1447.7
45°	11434.5	9114.5	3810.5	1885.3	1527.3	1410.9	1362.0	1377.3	1371.2	1380.3	1395.6
47.5°	12570.0	9910.3	3856.4	1818.0	1481.3	1377.3	1325.2	1331.4	1328.3	1325.2	1334.4
50°	13549.4	10543.8	3988.0	1796.6	1450.7	1343.6	1294.6	1297.7	1288.5	1270.2	1276.3
52.5°	14348.2	11051.9	4067.6	1796.6	1435.4	1306.9	1261.0	1264.0	1245.7	1221.2	1224.2
55°	14874.6	11257.0	4003.3	1793.5	1429.3	1276.3	1227.3	1230.4	1212.0	1181.4	1184.5
57.5°	15024.6	11058.0	3734.0	1759.9	1423.2	1251.8	1193.6	1199.8	1187.5	1153.9	1153.9
60°	14605.3	10329.6	3241.2	1683.3	1407.9	1236.5	1169.2	1178.3	1172.2	1138.6	1138.6
62.5°	13506.5	9035.0	2653.6	1567.0	1365.0	1218.1	1147.7	1166.1	1181.4	1163.0	1160.0
65°	11449.8	7238.4	2157.7	1438.5	1309.9	1187.5	1117.1	1163.0	1196.7	1221.2	1221.2
67.5°	8591.2	5181.6	1759.9	1303.8	1227.3	1126.3	1077.3	1120.2	1144.7	1160.0	1169.2
70°	5236.7	3048.4	1386.5	1147.7	1107.9	1034.5	997.8	954.9	921.2	915.1	918.2
72.5°	2561.7	1744.6	1126.3	976.3	945.7	878.4	795.8	777.4	762.1	752.9	749.9
75°	1410.9	1215.1	930.4	811.1	756.0	673.3	655.0	624.4	618.2	606.0	609.1
77.5°	997.8	958.0	768.2	658.0	575.4	532.5	541.7	520.3	520.3	511.1	508.1
80°	749.9	752.9	590.7	480.5	425.4	410.1	419.3	419.3	413.2	410.1	407.1
82.5°	474.4	535.6	397.9	309.1	303.0	306.1	303.0	299.9	306.1	296.9	293.8
85°	327.5	385.6	241.8	183.6	183.6	180.6	186.7	183.6	189.8	180.6	180.6
87.5°	73.5	171.4	88.8	55.1	58.2	55.1	58.2	61.2	67.3	70.4	70.4
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)