

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: P640817

Luminaire Tested: GWS-SA5E-750-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640817
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38071.9 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

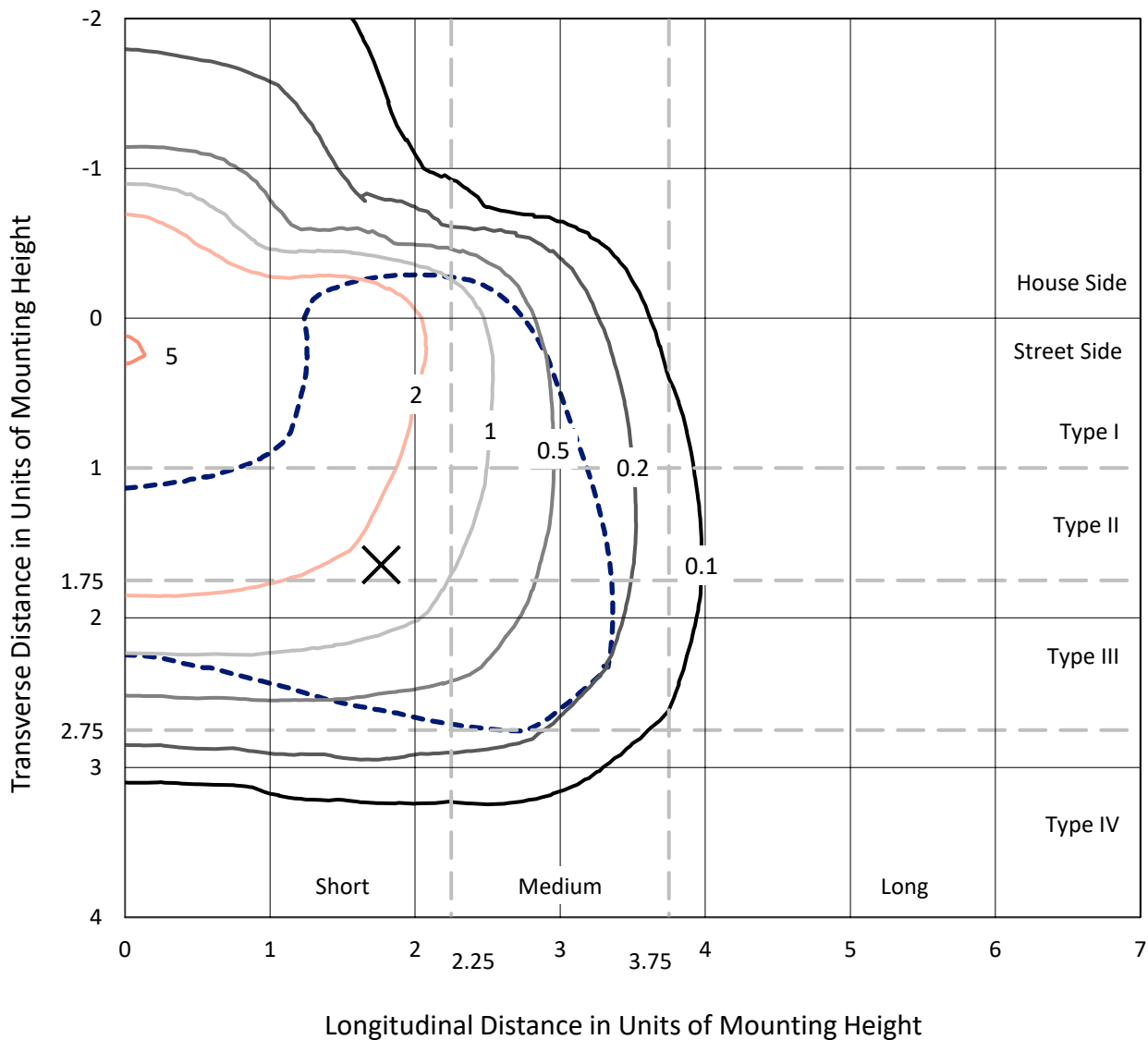
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

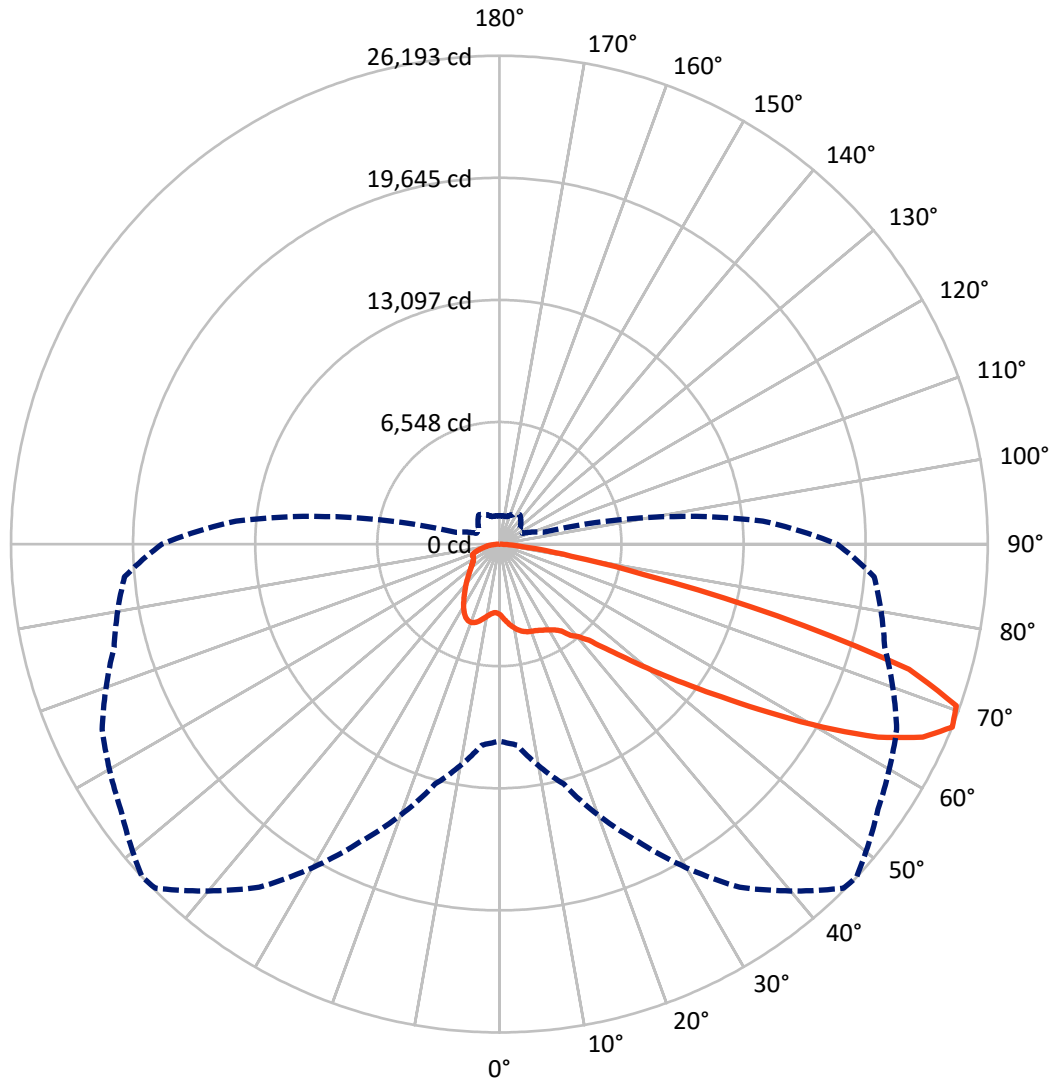
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P640817
CATALOG NUMBER: GWS-SA5E-750-U-T4W-W

Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8676.9	0.0	8676.9
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	29395.0	0.0	29395.0
	% Fixture	77.2	0.0	77.2
Total	Lumens	38071.9	0.0	38071.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.7	1.0
10°-20°	1285.1	3.4
20°-30°	2184.3	5.7
30°-40°	3199.8	8.4
40°-50°	4875.2	12.8
50°-60°	8722.8	22.9
60°-70°	11639.6	30.6
70°-80°	5263.7	13.8
80°-90°	515.7	1.4
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°	38071.9	100.0
0°-180°	38071.9	100.0

Coefficient of Utilization



REPORT NUMBER: P640817

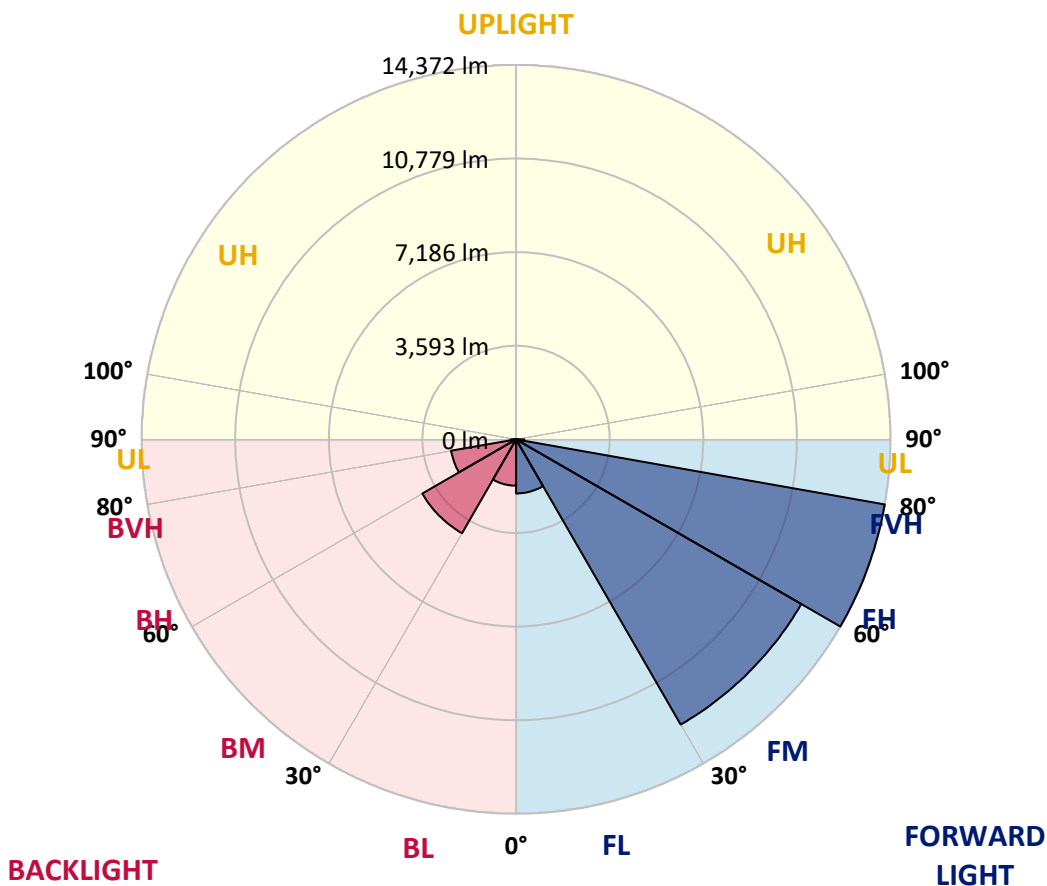
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.3	5.5			
FM (30°-60°)	12640.3	33.2			
FH (60°-80°)	14371.7	37.7			G5
FVH (80°-90°)	306.8	0.8			G3/500
BL (0°-30°)	1778.8	4.7	B3/2500		
BM (30°-60°)	4157.5	10.9	B3/5000		
BH (60°-80°)	2531.6	6.6	B4/5000		G4/5000
BVH (80°-90°)	209.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1
2.5°	4024.6	4038.4	4035.6	4013.6	3999.9	3975.1	3977.8	3939.3	3881.5	3843.0	3798.9
5°	4379.8	4401.8	4374.2	4338.5	4283.4	4203.6	4195.3	4107.2	3997.1	3920.0	3840.2
7.5°	4688.1	4701.8	4668.8	4608.2	4528.4	4421.0	4401.8	4297.2	4159.5	4038.4	3922.8
10°	4927.6	4944.1	4900.0	4820.2	4715.6	4608.2	4594.5	4487.1	4341.2	4198.1	4052.2
12.5°	5131.3	5136.8	5090.0	4982.6	4869.8	4759.6	4745.9	4646.8	4511.9	4366.0	4206.3
15°	5249.6	5252.4	5194.6	5076.2	4968.9	4872.5	4864.3	4778.9	4655.0	4517.4	4346.7
17.5°	5241.4	5246.9	5205.6	5101.0	5007.4	4949.6	4941.3	4886.3	4789.9	4666.0	4495.4
20°	5139.5	5145.0	5117.5	5048.7	4999.1	4982.6	4985.4	4968.9	4911.0	4809.2	4635.8
22.5°	5059.7	5068.0	5043.2	4993.6	4988.1	5026.7	5034.9	5043.2	5015.7	4924.8	4756.9
25°	5098.2	5112.0	5073.5	5004.6	5015.7	5101.0	5117.5	5145.0	5123.0	5045.9	4900.0
27.5°	5365.3	5373.5	5274.4	5134.0	5101.0	5191.8	5216.6	5260.7	5244.1	5172.6	5059.7
30°	5984.7	5979.1	5767.2	5423.1	5285.4	5321.2	5340.5	5403.8	5409.3	5362.5	5255.2
32.5°	6857.3	6829.8	6502.2	5954.4	5555.2	5467.1	5489.1	5574.5	5637.8	5588.2	5442.3
35°	7779.5	7754.7	7394.1	6752.7	6053.5	5747.9	5723.1	5789.2	5885.6	5747.9	5538.7
37.5°	8657.7	8619.1	8250.2	7457.4	6667.4	6240.7	6204.9	6138.8	6081.0	5816.7	5657.1
40°	9632.2	9588.1	9266.0	8368.6	7344.6	6617.8	6527.0	6265.4	6213.1	6045.2	5965.4
42.5°	10672.7	10672.7	10405.7	9522.0	8162.1	7157.4	7039.0	6645.3	6700.4	6590.3	6496.7
45°	11713.3	11743.6	11531.6	10683.7	9255.0	8175.9	7986.0	7427.1	7559.3	7509.7	7462.9
47.5°	12599.7	12657.5	12616.2	11870.2	10592.9	9414.7	9125.6	8544.8	8828.3	8946.7	9078.8
50°	13554.9	13618.3	13577.0	13282.4	12159.3	10915.0	10656.2	10056.1	10543.3	10898.5	11330.6
52.5°	14972.6	15063.5	14719.4	14606.5	14061.5	12619.0	12387.7	11705.0	12588.7	13177.8	14141.3
55°	16170.1	16167.4	16046.2	16305.0	16104.1	14702.9	14446.9	13827.5	14956.1	15581.0	16990.5
57.5°	16726.2	16792.3	17207.9	17940.2	18342.1	17249.2	17004.2	16371.1	17497.0	17821.8	19344.1
60°	17012.5	17095.1	17898.9	19346.9	20428.8	20029.6	19933.2	19126.7	19759.8	19721.3	21328.9
62.5°	16610.6	16775.7	18066.8	19991.1	21918.0	22823.7	22793.4	21573.9	21684.0	21306.9	22559.4
65°	14766.2	14945.1	16971.2	19669.0	22768.7	24948.9	24957.2	23790.0	23162.3	22077.7	22353.0
67.5°	10559.9	10815.9	13320.9	17598.8	22468.6	26096.8	26193.2	24794.7	23509.2	21395.0	20183.8
70°	5756.2	5943.4	7906.1	12792.4	19765.3	25821.5	26000.5	24310.2	21978.6	18507.3	15537.0
72.5°	2615.2	2675.8	3677.8	7019.7	13502.6	22226.4	22975.1	21695.1	18050.3	13670.6	9879.9
75°	1197.5	1225.0	1602.1	3358.5	7055.5	14873.5	15399.3	16159.1	12561.2	8632.9	5150.5
77.5°	751.5	759.8	911.2	1536.1	3518.1	7424.4	7977.7	9621.1	7355.6	4272.4	2152.7
80°	443.2	451.5	567.1	831.4	1651.7	3397.0	3922.8	3804.4	3457.6	1844.4	980.0
82.5°	223.0	231.2	327.6	473.5	900.2	1351.6	1591.1	1599.4	1288.3	999.3	553.3
85°	79.8	82.6	107.4	187.2	382.6	446.0	498.3	608.4	630.4	580.8	267.0
87.5°	0.0	0.0	2.8	5.5	11.0	44.0	46.8	88.1	184.4	206.5	107.4
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°	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1	3774.1
2.5°	3785.1	3743.8	3730.1	3716.3	3694.3	3686.0	3669.5	3653.0	3653.0	3636.5	3628.2
5°	3804.4	3749.4	3713.6	3697.1	3683.3	3691.5	3691.5	3697.1	3716.3	3705.3	3710.8
7.5°	3873.2	3809.9	3760.4	3746.6	3746.6	3779.6	3801.7	3829.2	3865.0	3870.5	3870.5
10°	3994.4	3920.0	3867.7	3859.5	3873.2	3920.0	3953.1	3986.1	4030.1	4032.9	4038.4
12.5°	4126.5	4052.2	3999.9	4010.9	4024.6	4085.2	4121.0	4148.5	4192.6	4192.6	4189.8
15°	4264.1	4181.5	4137.5	4159.5	4200.8	4269.6	4275.1	4277.9	4299.9	4294.4	4291.7
17.5°	4407.3	4319.2	4286.2	4319.2	4363.2	4396.3	4368.7	4330.2	4321.9	4310.9	4305.4
20°	4547.7	4456.8	4443.1	4467.8	4481.6	4454.1	4368.7	4297.2	4264.1	4247.6	4242.1
22.5°	4668.8	4591.7	4583.5	4583.5	4514.6	4418.3	4291.7	4195.3	4151.3	4129.2	4123.7
25°	4811.9	4740.4	4726.6	4652.3	4476.1	4299.9	4129.2	4041.2	4005.4	3994.4	3997.1
27.5°	4979.9	4930.3	4886.3	4674.3	4366.0	4090.7	3898.0	3859.5	3845.7	3859.5	3867.7
30°	5186.3	5136.8	5037.7	4646.8	4189.8	3818.2	3633.7	3631.0	3672.3	3708.1	3713.6
32.5°	5354.3	5332.2	5169.8	4558.7	3942.1	3518.1	3361.2	3372.2	3446.5	3496.1	3504.4
35°	5486.4	5522.2	5279.9	4412.8	3647.5	3234.6	3110.7	3116.2	3157.5	3226.3	3229.1
37.5°	5673.6	5794.7	5379.0	4189.8	3308.9	2989.6	2876.7	2835.4	2829.9	2849.2	2854.7
40°	6050.7	6232.4	5450.6	3865.0	2981.3	2769.3	2642.7	2562.9	2494.1	2441.8	2425.2
42.5°	6620.6	6829.8	5491.9	3471.3	2689.5	2551.9	2408.7	2306.9	2185.7	2075.6	2037.1
45°	7666.6	7735.5	5491.9	3052.9	2430.7	2348.2	2205.0	2083.9	1929.7	1800.4	1772.8
47.5°	9340.4	9120.1	5497.4	2648.2	2202.3	2169.2	2045.4	1907.7	1737.0	1629.7	1613.2
50°	11861.9	11088.4	5610.3	2312.4	2012.3	2017.8	1927.0	1775.6	1621.4	1541.6	1527.8
52.5°	14719.4	13513.6	5913.1	2064.6	1852.7	1893.9	1844.4	1698.5	1560.9	1492.0	1478.3
55°	17406.1	15743.4	6171.8	1888.4	1717.8	1789.3	1786.6	1651.7	1527.8	1459.0	1450.7
57.5°	19691.0	17271.3	6133.3	1745.3	1602.1	1693.0	1734.3	1621.4	1505.8	1448.0	1439.7
60°	21111.5	18080.6	5585.5	1613.2	1514.1	1624.2	1704.0	1613.2	1516.8	1503.0	1505.8
62.5°	21728.1	17931.9	4533.9	1514.1	1456.2	1591.1	1737.0	1671.0	1618.7	1651.7	1671.0
65°	20770.1	16654.6	3336.4	1439.7	1401.2	1599.4	1814.1	1761.8	1618.7	1640.7	1648.9
67.5°	18110.9	14177.1	2411.5	1365.4	1332.4	1624.2	1924.2	1748.0	1525.1	1525.1	1508.6
70°	13051.2	10196.5	1750.8	1291.1	1263.5	1588.4	1929.7	1654.5	1417.7	1409.4	1368.2
72.5°	7853.8	6014.9	1365.4	1208.5	1158.9	1409.4	1808.6	1544.3	1313.1	1244.3	1194.7
75°	4079.7	3014.3	1145.2	1117.6	993.8	1194.7	1654.5	1373.7	1123.2	1062.6	1035.1
77.5°	1748.0	1409.4	982.8	996.5	825.8	1004.8	1335.1	1189.2	996.5	919.4	894.7
80°	861.6	801.1	776.3	798.3	660.7	776.3	1150.7	1040.6	845.1	757.0	721.2
82.5°	492.8	468.0	558.8	567.1	470.7	649.7	971.7	880.9	699.2	602.9	545.1
85°	228.5	245.0	338.6	341.4	291.8	446.0	635.9	495.5	371.6	308.3	294.6
87.5°	90.8	107.4	148.7	145.9	85.3	82.6	55.1	30.3	24.8	22.0	19.3
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)