

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: P640872

Luminaire Tested: GWS-SA5E-760-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640872  
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-760-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

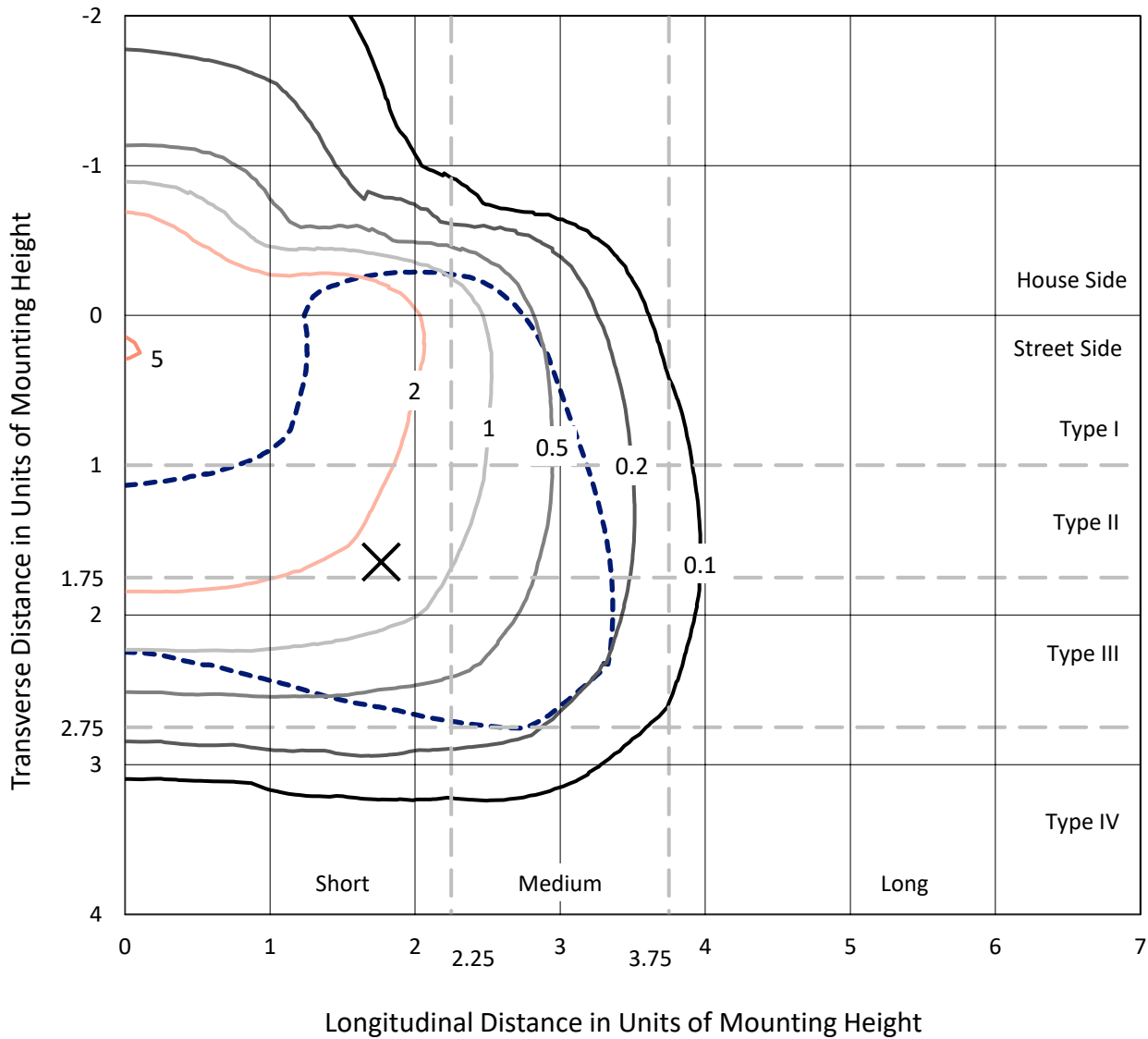
Lumens per Lamp: N/A  
Luminaire Lumens: 37550.1 lumens  
Efficiency: N/A  
Efficacy: 139.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

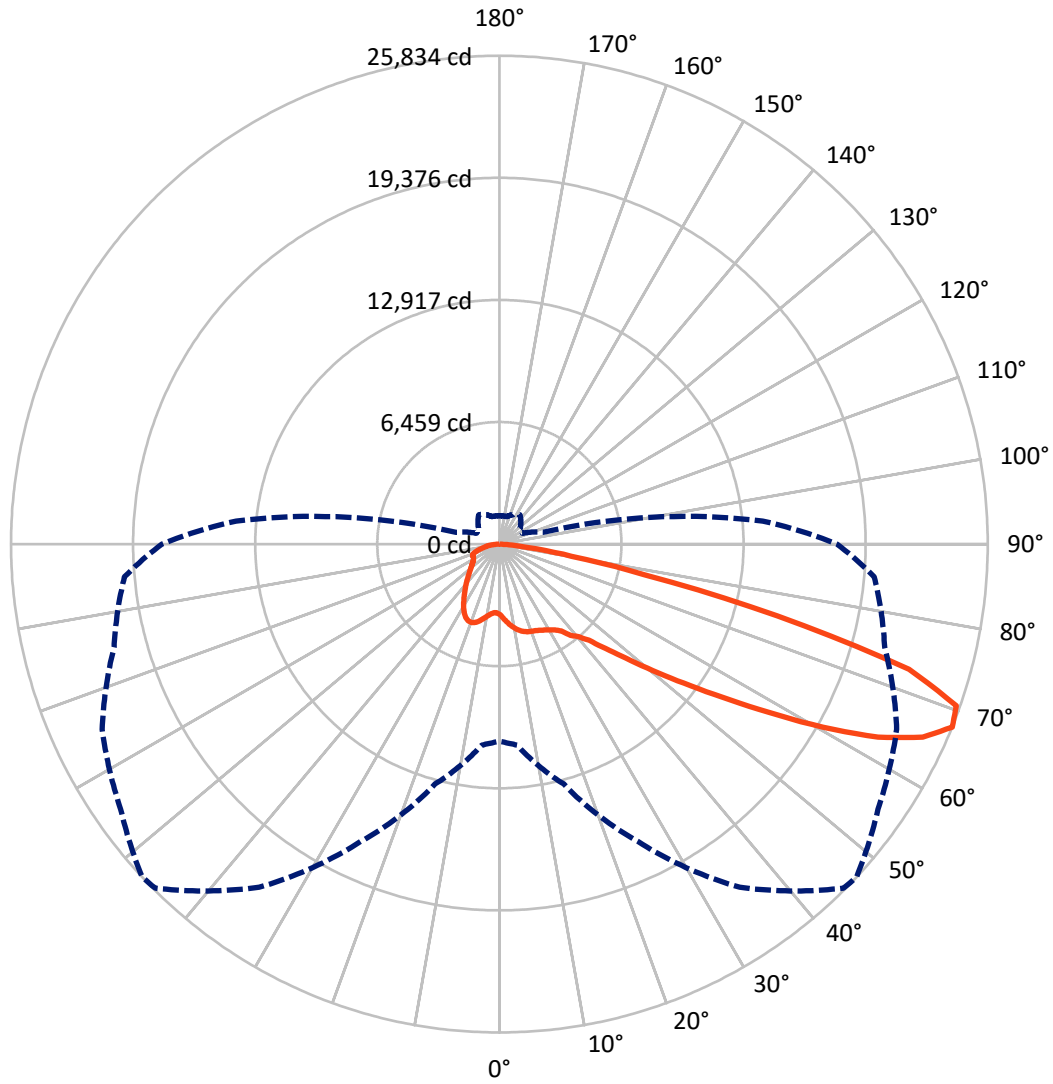
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc  
 Type III - Short - N/A

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### 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
<b>House Side</b>	Lumens	8558.0	0.0	8558.0
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	28992.2	0.0	28992.2
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	37550.1	0.0	37550.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	380.4	1.0
10°-20°	1267.5	3.4
20°-30°	2154.4	5.7
30°-40°	3155.9	8.4
40°-50°	4808.4	12.8
50°-60°	8603.2	22.9
60°-70°	11480.1	30.6
70°-80°	5191.6	13.8
80°-90°	508.6	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°	37550.1	100.0
0°-180°	37550.1	100.0

**Coefficient of Utilization**



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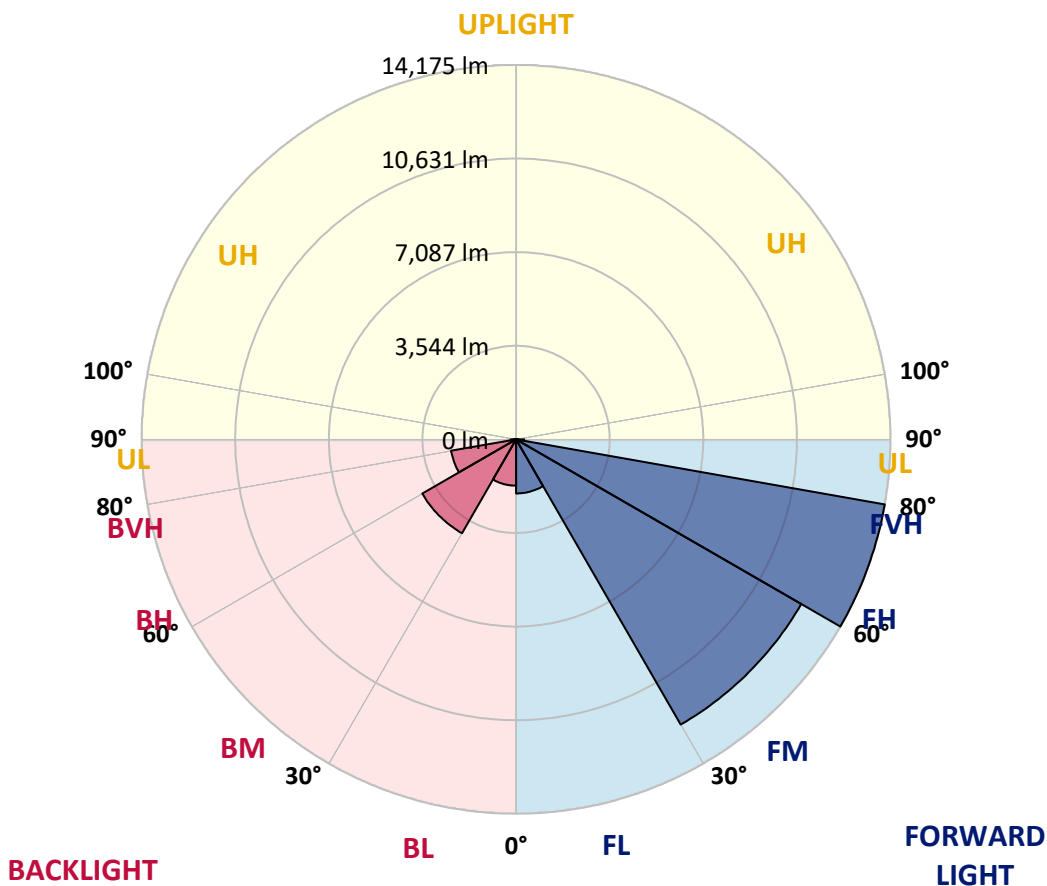
CATALOG NUMBER: GWS-SA5E-760-U-T4W-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2047.8	5.5			
FM (30°-60°)	12467.0	33.2			
FH (60°-80°)	14174.7	37.7			G5
FVH (80°-90°)	302.5	0.8			G3/500
BL (0°-30°)	1754.4	4.7	B3/2500		
BM (30°-60°)	4100.5	10.9	B3/5000		
BH (60°-80°)	2496.9	6.6	B3/2500		G3/2500
BVH (80°-90°)	206.1	0.5			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4
2.5°	3969.5	3983.1	3980.3	3958.6	3945.0	3920.6	3923.3	3885.3	3828.3	3790.3	3746.8
5°	4319.7	4341.4	4314.3	4279.0	4224.7	4146.0	4137.8	4050.9	3942.3	3866.3	3787.6
7.5°	4623.8	4637.4	4604.8	4545.1	4466.3	4360.5	4341.4	4238.3	4102.5	3983.1	3869.0
10°	4860.0	4876.3	4832.9	4754.1	4651.0	4545.1	4531.5	4425.6	4281.7	4140.5	3996.6
12.5°	5060.9	5066.4	5020.2	4914.3	4803.0	4694.4	4680.8	4583.1	4450.1	4306.1	4148.7
15°	5177.7	5180.4	5123.4	5006.6	4900.8	4805.7	4797.6	4713.4	4591.2	4455.5	4287.1
17.5°	5169.6	5175.0	5134.3	5031.1	4938.8	4881.8	4873.6	4819.3	4724.3	4602.1	4433.8
20°	5069.1	5074.5	5047.4	4979.5	4930.6	4914.3	4917.0	4900.8	4843.7	4743.3	4572.2
22.5°	4990.4	4998.5	4974.1	4925.2	4919.8	4957.8	4965.9	4974.1	4946.9	4857.3	4691.7
25°	5028.4	5041.9	5003.9	4936.1	4946.9	5031.1	5047.4	5074.5	5052.8	4976.8	4832.9
27.5°	5291.7	5299.9	5202.1	5063.7	5031.1	5120.7	5145.1	5188.6	5172.3	5101.7	4990.4
30°	5902.6	5897.2	5688.1	5348.7	5213.0	5248.3	5267.3	5329.7	5335.2	5289.0	5183.1
32.5°	6763.3	6736.2	6413.1	5872.8	5479.1	5392.2	5413.9	5498.1	5560.5	5511.7	5367.8
35°	7672.9	7648.4	7292.8	6660.1	5970.5	5669.1	5644.7	5709.9	5804.9	5669.1	5462.8
37.5°	8539.0	8501.0	8137.2	7355.2	6576.0	6155.1	6119.8	6054.7	5997.7	5737.0	5579.5
40°	9500.1	9456.7	9139.0	8253.9	7243.9	6527.1	6437.5	6179.6	6128.0	5962.4	5883.6
42.5°	10526.4	10526.4	10263.1	9391.5	8050.3	7059.3	6942.5	6554.3	6608.6	6500.0	6407.6
45°	11552.8	11582.6	11373.6	10537.3	9128.2	8063.8	7876.5	7325.3	7455.7	7406.8	7360.6
47.5°	12427.0	12484.0	12443.3	11707.5	10447.7	9285.6	9000.6	8427.7	8707.3	8824.1	8954.4
50°	13369.2	13431.6	13390.9	13100.4	11992.6	10765.4	10510.2	9918.3	10398.8	10749.1	11175.4
52.5°	14767.4	14857.0	14517.6	14406.3	13868.7	12446.0	12218.0	11544.6	12416.2	12997.2	13947.5
55°	15948.5	15945.8	15826.3	16081.5	15883.3	14501.4	14248.8	13638.0	14751.1	15367.5	16757.6
57.5°	16497.0	16562.1	16972.1	17694.3	18090.7	17012.8	16771.2	16146.7	17257.2	17577.6	19079.0
60°	16779.3	16860.8	17653.6	19081.7	20148.8	19755.1	19660.0	18864.5	19489.0	19451.0	21036.6
62.5°	16382.9	16545.8	17819.2	19717.1	21617.6	22510.9	22481.0	21278.2	21386.8	21014.9	22250.3
65°	14563.8	14740.3	16738.6	19399.4	22456.6	24607.0	24615.1	23463.9	22844.9	21775.1	22046.6
67.5°	10415.1	10667.6	13138.4	17357.6	22160.7	25739.2	25834.2	24454.9	23187.0	21101.8	19907.1
70°	5677.3	5861.9	7797.8	12617.1	19494.4	25467.6	25644.1	23977.1	21677.4	18253.6	15324.0
72.5°	2579.3	2639.1	3627.4	6923.5	13317.6	21921.7	22660.2	21397.7	17802.9	13483.2	9744.5
75°	1181.1	1208.2	1580.2	3312.4	6958.8	14669.7	15188.3	15937.6	12389.0	8514.6	5080.0
77.5°	741.2	749.4	898.7	1515.0	3469.9	7322.6	7868.4	9489.3	7254.7	4213.8	2123.2
80°	437.1	445.3	559.3	820.0	1629.1	3350.4	3869.0	3752.3	3410.2	1819.1	966.6
82.5°	219.9	228.1	323.1	467.0	887.8	1333.1	1569.3	1577.5	1270.7	985.6	545.7
85°	78.7	81.5	105.9	184.6	377.4	439.8	491.4	600.0	621.8	572.9	263.4
87.5°	0.0	0.0	2.7	5.4	10.9	43.4	46.2	86.9	181.9	203.6	105.9
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°	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4	3722.4
2.5°	3733.3	3692.5	3679.0	3665.4	3643.7	3635.5	3619.2	3602.9	3602.9	3586.6	3578.5
5°	3752.3	3698.0	3662.7	3646.4	3632.8	3641.0	3641.0	3646.4	3665.4	3654.5	3660.0
7.5°	3820.1	3757.7	3708.8	3695.3	3695.3	3727.8	3749.6	3776.7	3812.0	3817.4	3817.4
10°	3939.6	3866.3	3814.7	3806.6	3820.1	3866.3	3898.9	3931.5	3974.9	3977.6	3983.1
12.5°	4069.9	3996.6	3945.0	3955.9	3969.5	4029.2	4064.5	4091.7	4135.1	4135.1	4132.4
15°	4205.7	4124.2	4080.8	4102.5	4143.2	4211.1	4216.6	4219.3	4241.0	4235.6	4232.8
17.5°	4346.9	4260.0	4227.4	4260.0	4303.4	4336.0	4308.9	4270.9	4262.7	4251.8	4246.4
20°	4485.3	4395.7	4382.2	4406.6	4420.2	4393.0	4308.9	4238.3	4205.7	4189.4	4184.0
22.5°	4604.8	4528.8	4520.6	4520.6	4452.8	4357.7	4232.8	4137.8	4094.4	4072.7	4067.2
25°	4746.0	4675.4	4661.8	4588.5	4414.8	4241.0	4072.7	3985.8	3950.5	3939.6	3942.3
27.5°	4911.6	4862.7	4819.3	4610.2	4306.1	4034.6	3844.6	3806.6	3793.0	3806.6	3814.7
30°	5115.2	5066.4	4968.6	4583.1	4132.4	3765.8	3583.9	3581.2	3621.9	3657.2	3662.7
32.5°	5280.9	5259.2	5099.0	4496.2	3888.0	3469.9	3315.1	3326.0	3399.3	3448.2	3456.3
35°	5411.2	5446.5	5207.6	4352.3	3597.5	3190.2	3068.1	3073.5	3114.2	3182.1	3184.8
37.5°	5595.8	5715.3	5305.3	4132.4	3263.6	2948.6	2837.3	2796.6	2791.1	2810.1	2815.6
40°	5967.8	6147.0	5375.9	3812.0	2940.5	2731.4	2606.5	2527.8	2459.9	2408.3	2392.0
42.5°	6529.8	6736.2	5416.6	3423.7	2652.7	2516.9	2375.7	2275.3	2155.8	2047.2	2009.2
45°	7561.6	7629.4	5416.6	3011.0	2397.4	2316.0	2174.8	2055.3	1903.3	1775.7	1748.5
47.5°	9212.3	8995.1	5422.1	2611.9	2172.1	2139.5	2017.3	1881.6	1713.2	1607.3	1591.0
50°	11699.4	10936.4	5533.4	2280.7	1984.7	1990.2	1900.6	1751.2	1599.2	1520.5	1506.9
52.5°	14517.6	13328.4	5832.0	2036.3	1827.3	1868.0	1819.1	1675.2	1539.5	1471.6	1458.0
55°	17167.6	15527.7	6087.3	1862.6	1694.2	1764.8	1762.1	1629.1	1506.9	1439.0	1430.9
57.5°	19421.1	17034.5	6049.2	1721.4	1580.2	1669.8	1710.5	1599.2	1485.2	1428.1	1420.0
60°	20822.1	17832.8	5508.9	1591.0	1493.3	1601.9	1680.6	1591.0	1496.0	1482.4	1485.2
62.5°	21430.3	17686.2	4471.8	1493.3	1436.3	1569.3	1713.2	1648.1	1596.5	1629.1	1648.1
65°	20485.4	16426.4	3290.7	1420.0	1382.0	1577.5	1789.3	1737.7	1596.5	1618.2	1626.3
67.5°	17862.6	13982.8	2378.4	1346.7	1314.1	1601.9	1897.9	1724.1	1504.2	1504.2	1487.9
70°	12872.3	10056.7	1726.8	1273.4	1246.2	1566.6	1903.3	1631.8	1398.3	1390.1	1349.4
72.5°	7746.2	5932.5	1346.7	1191.9	1143.1	1390.1	1783.8	1523.2	1295.1	1227.2	1178.4
75°	4023.8	2973.0	1129.5	1102.3	980.2	1178.4	1631.8	1354.8	1107.8	1048.0	1020.9
77.5°	1724.1	1390.1	969.3	982.9	814.5	991.0	1316.8	1172.9	982.9	906.8	882.4
80°	849.8	790.1	765.7	787.4	651.6	765.7	1134.9	1026.3	833.5	746.7	711.4
82.5°	486.0	461.6	551.2	559.3	464.3	640.8	958.4	868.8	689.6	594.6	537.6
85°	225.4	241.6	334.0	336.7	287.8	439.8	627.2	488.7	366.5	304.1	290.5
87.5°	89.6	105.9	146.6	143.9	84.2	81.5	54.3	29.9	24.4	21.7	19.0
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)