

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: P640864

Luminaire Tested: GWS-SA5E-760-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-760-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37900.4 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

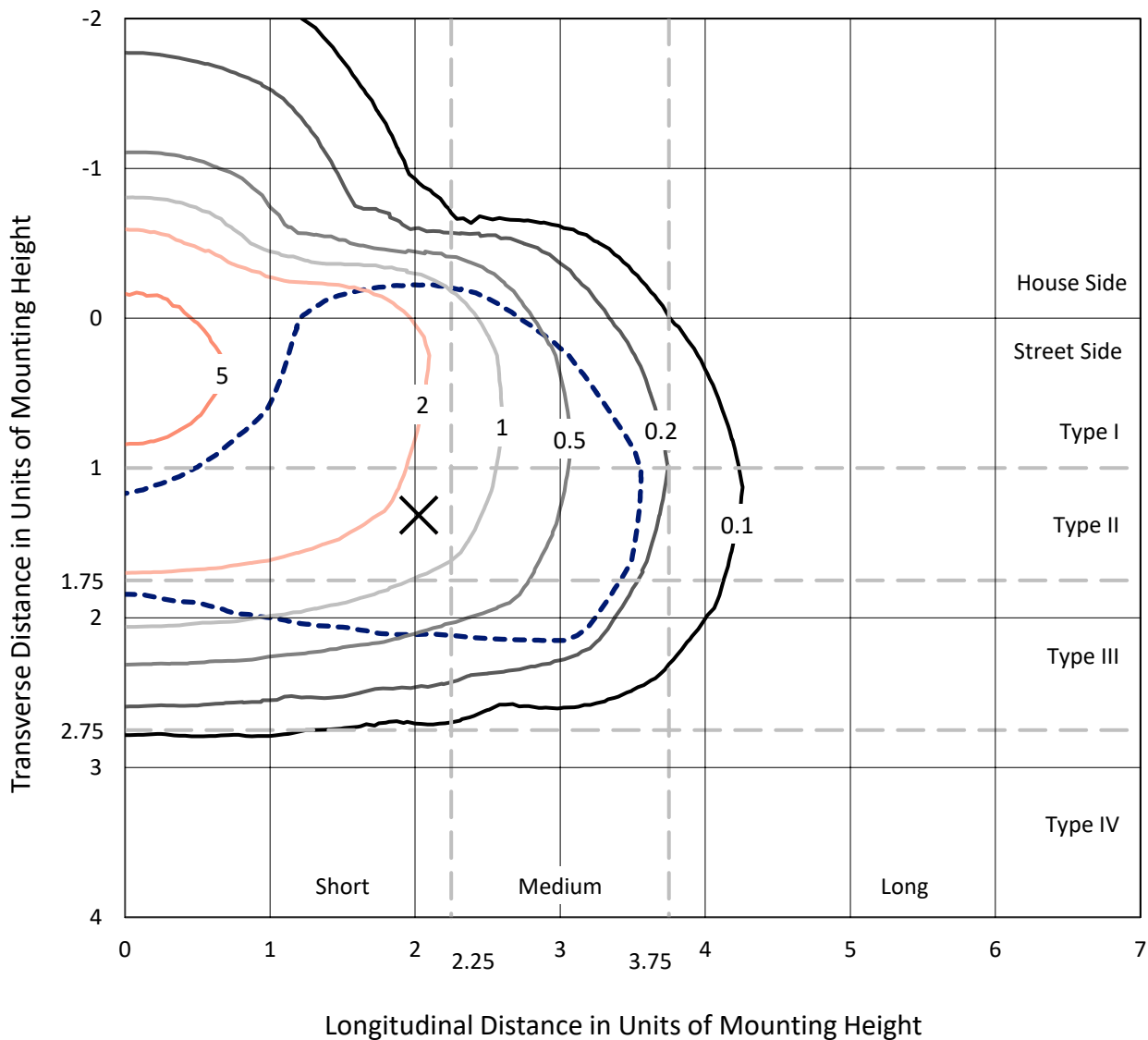
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640864
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Iso-Footcandle Lines of Horizontal Illumination

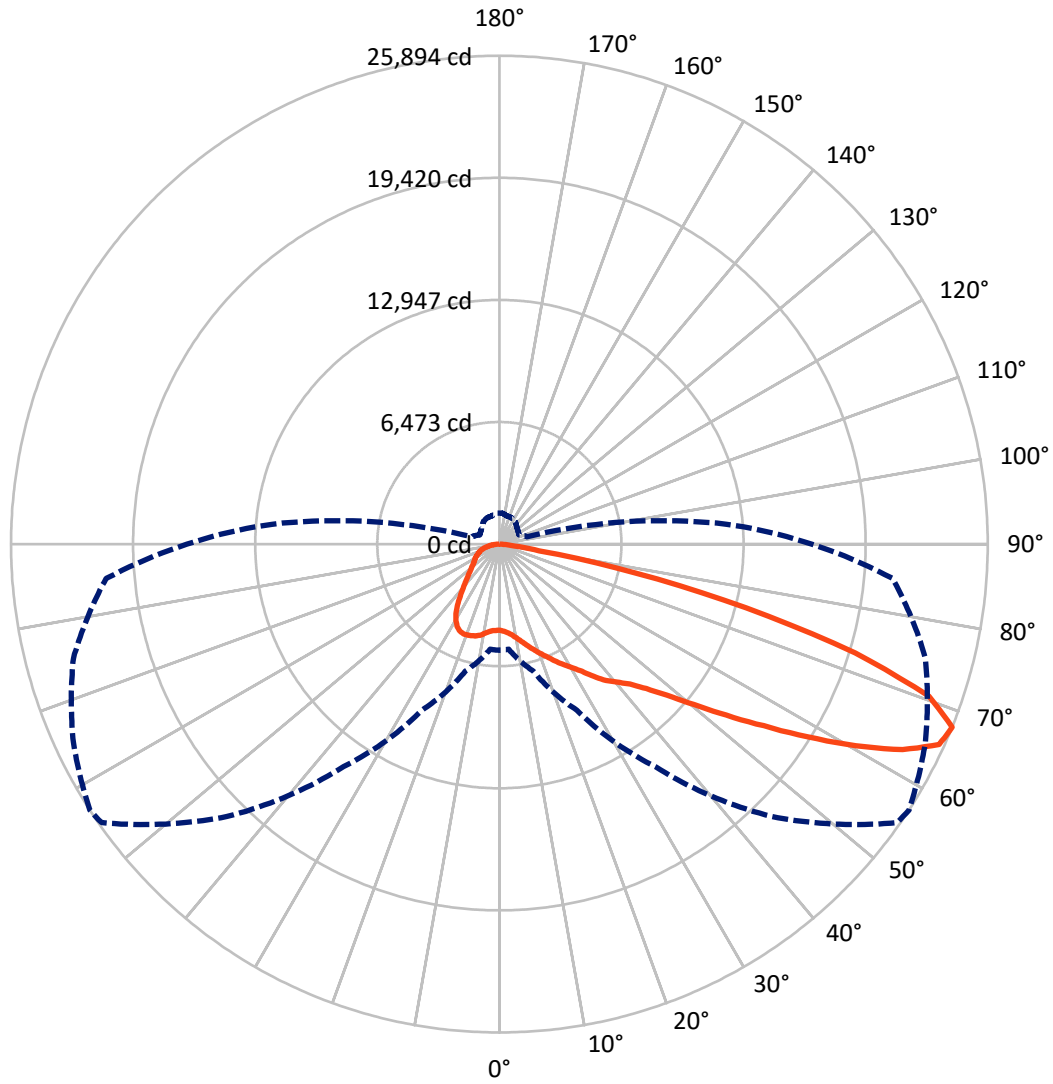
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

REPORT NUMBER: P640864
CATALOG NUMBER: GWS-SA5E-760-U-T3-W

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8332.9	0.0	8332.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	29567.5	0.0	29567.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	37900.4	0.0	37900.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.9	1.2
10°-20°	1499.4	4.0
20°-30°	2673.2	7.1
30°-40°	3886.4	10.3
40°-50°	5625.0	14.8
50°-60°	8802.9	23.2
60°-70°	10269.2	27.1
70°-80°	4286.8	11.3
80°-90°	404.5	1.1
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°	37900.4	100.0
0°-180°	37900.4	100.0

Coefficient of Utilization



REPORT NUMBER: P640864

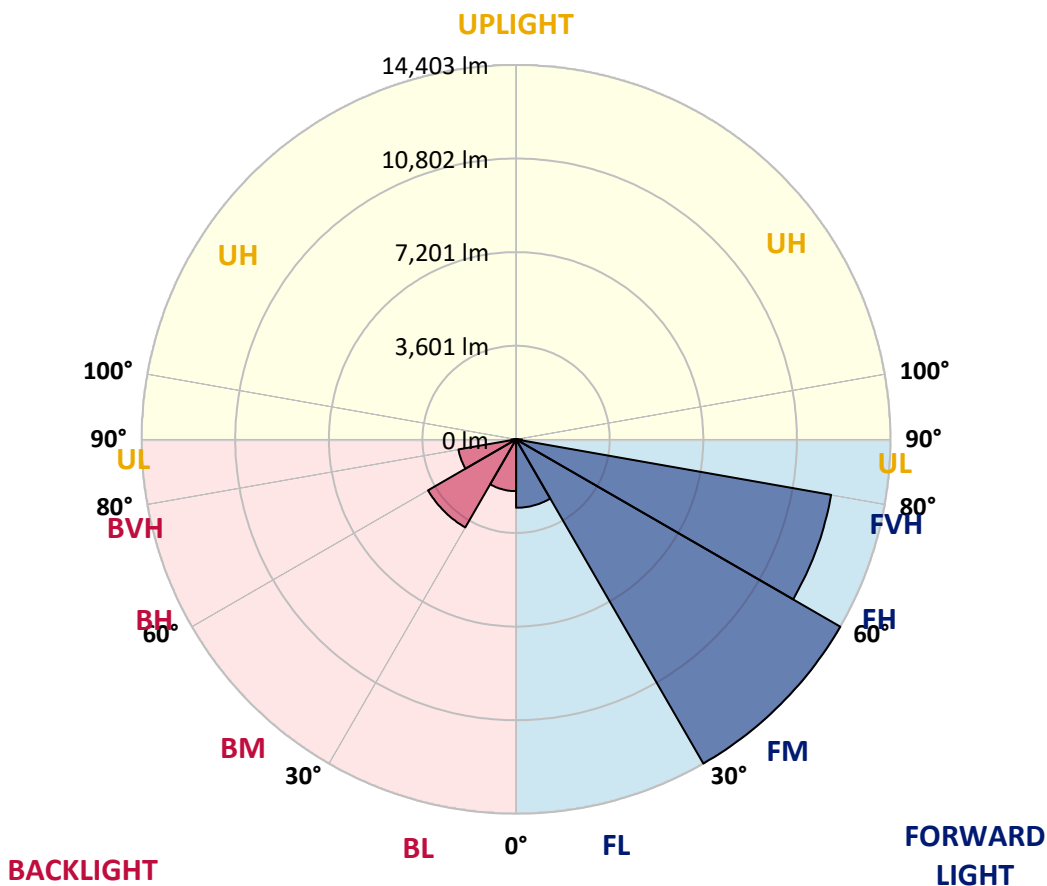
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2632.6	6.9			
FM (30°-60°)	14402.7	38.0			
FH (60°-80°)	12306.9	32.5			G5
FVH (80°-90°)	225.4	0.6			G3/500
BL (0°-30°)	1993.0	5.3	B3/2500		
BM (30°-60°)	3911.7	10.3	B3/5000		
BH (60°-80°)	2249.1	5.9	B3/2500		G3/2500
BVH (80°-90°)	179.2	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





REPORT NUMBER: P640864

CATALOG NUMBER: GWS-SA5E-760-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7
2.5°	4631.9	4626.5	4623.8	4640.0	4634.6	4631.9	4631.9	4629.2	4623.8	4602.0	4572.2
5°	4759.5	4748.6	4737.8	4751.4	4740.5	4729.6	4726.9	4721.5	4702.5	4669.9	4623.8
7.5°	4892.5	4881.7	4884.4	4892.5	4884.4	4879.0	4870.8	4865.4	4835.5	4783.9	4721.5
10°	5079.9	5079.9	5085.3	5093.5	5096.2	5088.0	5071.7	5063.6	5028.3	4963.1	4876.3
12.5°	5351.4	5346.0	5346.0	5340.5	5348.7	5340.5	5324.2	5310.7	5267.2	5183.1	5058.2
15°	5709.8	5688.1	5669.1	5633.8	5622.9	5593.0	5598.5	5590.3	5549.6	5435.6	5278.1
17.5°	6092.6	6089.9	6060.0	5989.4	5918.8	5870.0	5880.8	5878.1	5856.4	5701.6	5500.7
20°	6429.3	6442.9	6415.7	6361.4	6266.4	6174.1	6168.6	6182.2	6155.1	6000.3	5720.6
22.5°	6806.7	6795.8	6768.7	6698.1	6627.5	6529.7	6497.2	6486.3	6475.4	6299.0	5946.0
25°	7165.1	7197.6	7162.3	7097.2	6988.6	6882.7	6855.5	6866.4	6836.5	6603.0	6187.6
27.5°	7618.5	7632.0	7610.3	7520.7	7428.4	7279.1	7227.5	7227.5	7216.6	6888.1	6377.7
30°	8101.8	8139.8	8101.8	8028.4	7933.4	7718.9	7607.6	7596.8	7564.2	7181.3	6600.3
32.5°	8587.8	8614.9	8587.8	8517.2	8408.6	8221.2	8061.0	8036.6	7993.2	7501.7	6828.4
35°	9019.4	9043.9	9038.5	9054.7	8965.1	8728.9	8631.2	8620.3	8506.3	7919.8	7137.9
37.5°	9491.9	9521.7	9481.0	9513.6	9478.3	9255.7	9225.8	9171.5	9008.6	8313.5	7463.7
40°	10029.5	10056.6	9991.4	10005.0	9964.3	9839.4	9687.4	9614.0	9372.4	8739.8	7976.9
42.5°	10605.0	10667.5	10697.4	10672.9	10577.9	10507.3	10241.2	10148.9	9948.0	9508.2	8821.2
45°	11438.6	11530.9	11574.3	11511.9	11471.2	11370.7	11044.9	10933.6	10827.7	10591.5	9999.6
47.5°	12337.3	12421.4	12559.9	12587.0	12619.6	12543.6	12084.8	11976.2	11995.2	11968.0	11449.4
50°	13054.0	13124.6	13436.9	13770.8	14047.7	14069.5	13483.0	13366.3	13469.4	13556.3	13195.2
52.5°	13575.3	13637.8	14050.5	14740.1	15367.3	15831.5	15198.9	15065.9	15150.1	15345.6	15179.9
55°	13998.9	14085.8	14517.5	15576.3	16844.3	17577.3	17172.8	17004.5	16969.2	17210.8	17305.8
57.5°	14221.5	14248.7	14854.1	16230.7	17927.6	19290.5	19467.0	19277.0	18940.3	19073.3	19567.5
60°	13713.8	13760.0	14588.0	16399.0	18782.8	20990.2	21875.3	21717.8	21001.0	21074.3	21620.1
62.5°	12310.1	12375.3	13371.7	15598.1	18853.4	22125.1	24098.9	23998.5	23037.3	22640.9	22803.8
65°	9874.7	9896.4	10928.1	13616.1	17449.7	22266.3	25649.2	25624.8	24460.0	23531.5	22833.7
67.5°	5631.0	5593.0	6972.3	9711.8	14400.7	20430.9	25749.7	25893.6	24921.6	23384.9	20933.2
70°	2440.8	2446.3	3081.6	4792.1	9320.8	16513.0	23917.0	24164.1	23585.8	20944.0	16654.2
72.5°	1129.5	1145.8	1420.0	2074.3	3980.3	10243.9	19502.3	19725.0	19228.1	16762.8	12117.3
75°	798.2	811.8	947.6	1189.2	1830.0	3991.1	13045.9	13512.9	13754.5	12538.2	7985.0
77.5°	605.5	624.5	692.3	825.4	1129.5	1414.5	6241.9	7355.1	8761.5	7800.4	4113.3
80°	385.5	385.5	458.8	551.2	689.6	735.8	1802.8	2136.8	4287.1	3214.6	1615.5
82.5°	260.6	268.8	312.2	350.2	396.4	418.1	773.8	825.4	1238.1	1094.2	665.2
85°	138.5	143.9	162.9	160.2	190.1	165.6	325.8	323.1	453.4	496.9	252.5
87.5°	0.0	0.0	2.7	2.7	5.4	8.1	35.3	38.0	95.0	152.0	84.2
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°	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7	4566.7
2.5°	4588.5	4555.9	4572.2	4566.7	4583.0	4583.0	4553.2	4545.0	4547.7	4515.2	4504.3
5°	4629.2	4591.2	4599.3	4588.5	4604.8	4618.3	4604.8	4604.8	4621.0	4596.6	4583.0
7.5°	4721.5	4678.1	4678.1	4664.5	4683.5	4694.3	4683.5	4699.8	4729.6	4705.2	4691.6
10°	4868.1	4816.5	4819.2	4803.0	4811.1	4805.7	4762.2	4748.6	4756.8	4735.1	4724.2
12.5°	5058.2	4987.6	4987.6	4955.0	4936.0	4879.0	4789.4	4756.8	4762.2	4743.2	4735.1
15°	5240.1	5174.9	5161.3	5096.2	5009.3	4903.4	4822.0	4800.2	4805.7	4786.7	4773.1
17.5°	5454.6	5370.4	5321.5	5202.1	5041.9	4933.3	4851.8	4800.2	4756.8	4713.4	4702.5
20°	5652.8	5546.9	5457.3	5272.7	5077.2	4927.8	4775.8	4648.2	4542.3	4485.3	4471.7
22.5°	5856.4	5720.6	5563.2	5321.5	5074.5	4830.1	4550.4	4357.7	4200.2	4116.0	4132.3
25°	6049.2	5878.1	5663.6	5367.7	4987.6	4612.9	4232.8	3945.0	3765.8	3700.6	3681.6
27.5°	6209.4	5997.6	5755.9	5346.0	4808.4	4300.7	3798.4	3478.0	3304.2	3230.9	3211.9
30°	6388.5	6149.6	5889.0	5245.5	4526.0	3863.5	3306.9	3046.3	2921.4	2850.8	2853.5
32.5°	6594.9	6345.1	6076.3	5052.7	4164.9	3391.1	2902.4	2723.2	2622.8	2552.2	2541.3
35°	6871.8	6624.8	6201.2	4762.2	3706.1	2956.7	2625.5	2478.9	2354.0	2261.6	2242.6
37.5°	7213.9	7045.6	6214.8	4374.0	3214.6	2658.0	2427.3	2269.8	2117.8	1995.6	1982.0
40°	7800.4	7607.6	6103.5	3888.0	2796.5	2465.3	2261.6	2079.7	1903.3	1767.5	1748.5
42.5°	8636.6	8240.2	5864.5	3339.5	2481.6	2313.2	2104.2	1873.4	1694.2	1599.2	1585.6
45°	9700.9	8946.1	5506.2	2823.7	2248.1	2163.9	1938.6	1696.9	1601.9	1534.0	1520.4
47.5°	11004.2	9768.8	5093.5	2421.8	2066.2	2028.2	1770.2	1637.2	1553.0	1496.0	1482.4
50°	12562.6	10816.8	4754.1	2106.9	1903.3	1870.7	1715.9	1601.9	1534.0	1487.9	1477.0
52.5°	14341.0	11981.6	4588.5	1881.5	1762.1	1729.5	1696.9	1593.7	1536.7	1501.4	1487.9
55°	16187.2	13208.8	4433.7	1707.8	1642.6	1661.6	1699.6	1620.9	1577.5	1531.3	1517.7
57.5°	17971.0	14360.0	4053.6	1572.0	1555.7	1629.0	1713.2	1648.0	1596.5	1550.3	1534.0
60°	19200.9	14989.9	3410.1	1463.4	1490.6	1588.3	1677.9	1607.3	1542.2	1523.2	1515.0
62.5°	19532.2	14913.9	2647.2	1352.1	1411.8	1498.7	1585.6	1539.4	1471.6	1501.4	1504.1
65°	18758.4	14099.3	1987.4	1243.5	1308.7	1382.0	1490.6	1471.6	1447.1	1528.6	1531.3
67.5°	16567.3	12098.3	1515.0	1148.5	1202.8	1292.4	1460.7	1539.4	1544.9	1648.0	1637.2
70°	12535.5	9038.5	1186.5	1058.9	1121.3	1292.4	1555.7	1591.0	1525.9	1620.9	1599.2
72.5°	8666.5	5965.0	1010.0	980.1	1020.9	1232.6	1553.0	1553.0	1482.4	1482.4	1441.7
75°	5384.0	3507.9	879.7	879.7	879.7	1077.9	1509.6	1430.8	1305.9	1248.9	1216.3
77.5°	2658.0	1705.1	738.5	765.6	735.8	901.4	1232.6	1170.2	1094.2	1034.4	1012.7
80°	1134.9	852.5	597.3	627.2	591.9	678.8	977.4	963.8	890.5	811.8	787.4
82.5°	521.3	439.8	477.9	491.4	431.7	510.4	714.1	714.1	673.3	564.7	524.0
85°	222.6	233.5	331.2	331.2	271.5	287.8	382.8	363.8	325.8	266.1	244.4
87.5°	76.0	114.0	168.3	146.6	57.0	24.4	13.6	5.4	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)