

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: P640699

Luminaire Tested: GWS-SA5E-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640699
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-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37051.3 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

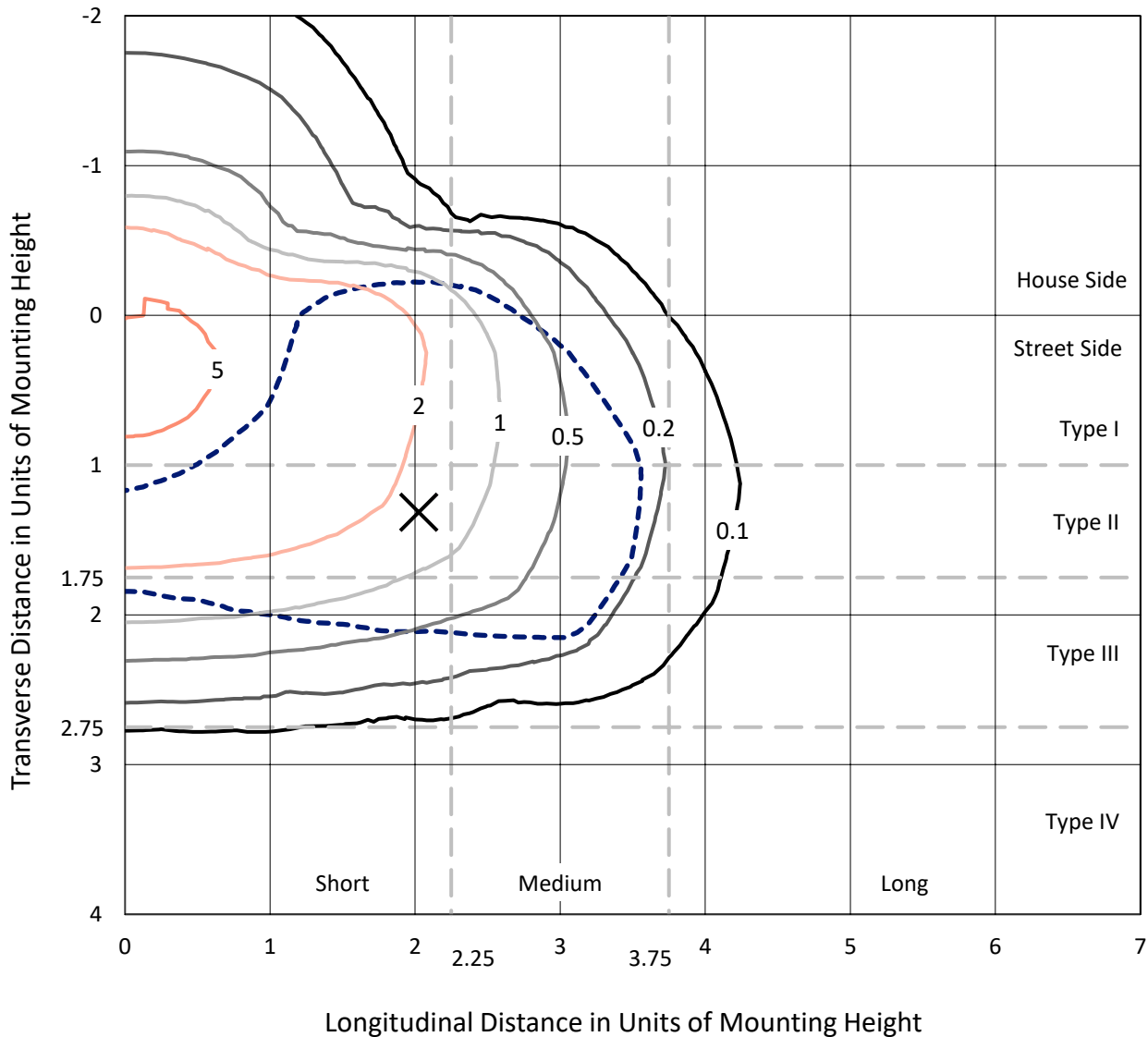
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640699
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Iso-Footcandle Lines of Horizontal Illumination

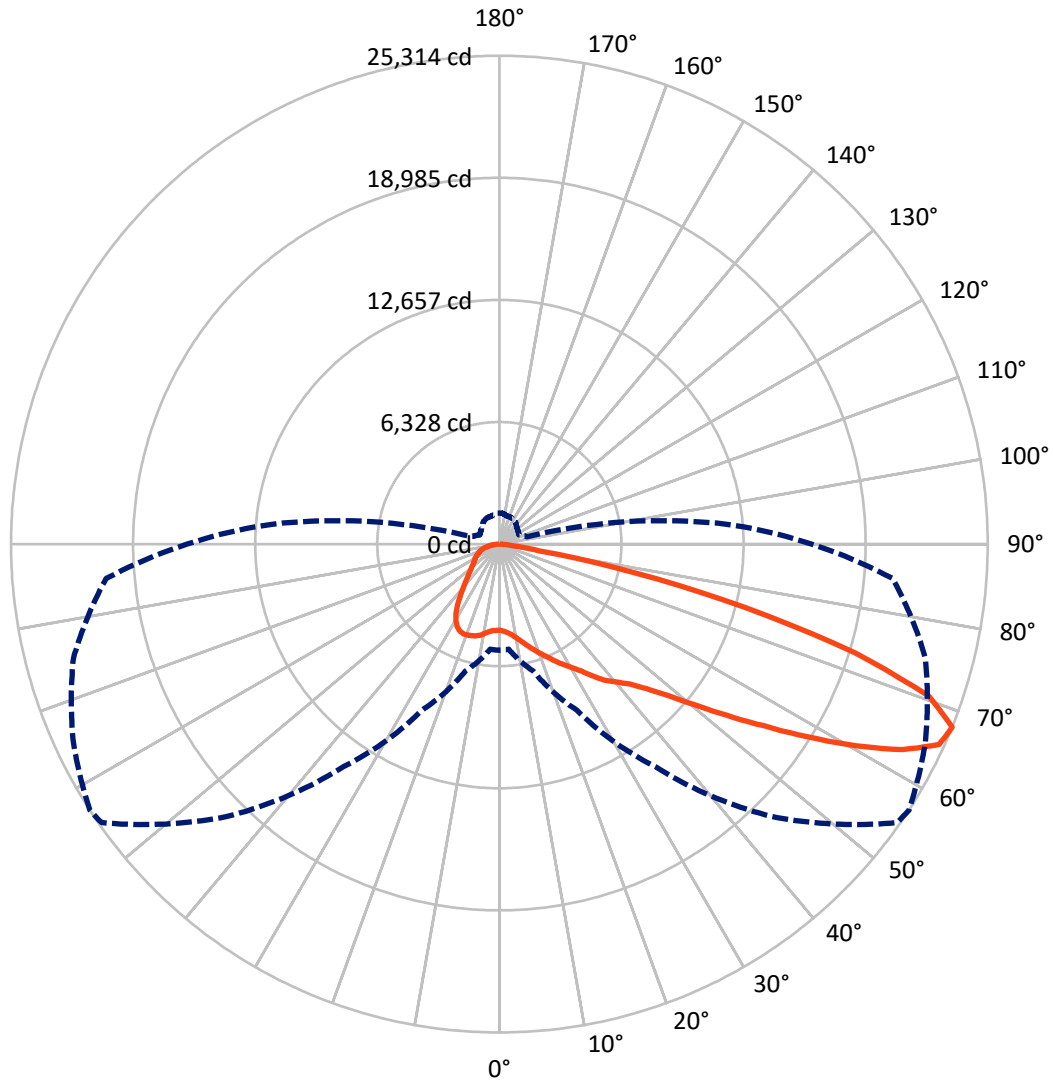
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

REPORT NUMBER: P640699
CATALOG NUMBER: GWS-SA5E-735-U-T3-W

Luminous Intensity Polar Plot



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

REPORT NUMBER: P640699

CATALOG NUMBER: GWS-SA5E-735-U-T3-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8146.2	0.0	8146.2
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	28905.1	0.0	28905.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	37051.3	0.0	37051.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.8	1.2
10°-20°	1465.8	4.0
20°-30°	2613.3	7.1
30°-40°	3799.4	10.3
40°-50°	5499.0	14.8
50°-60°	8605.7	23.2
60°-70°	10039.1	27.1
70°-80°	4190.8	11.3
80°-90°	395.5	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°	37051.3	100.0
0°-180°	37051.3	100.0

Coefficient of Utilization



REPORT NUMBER: P640699

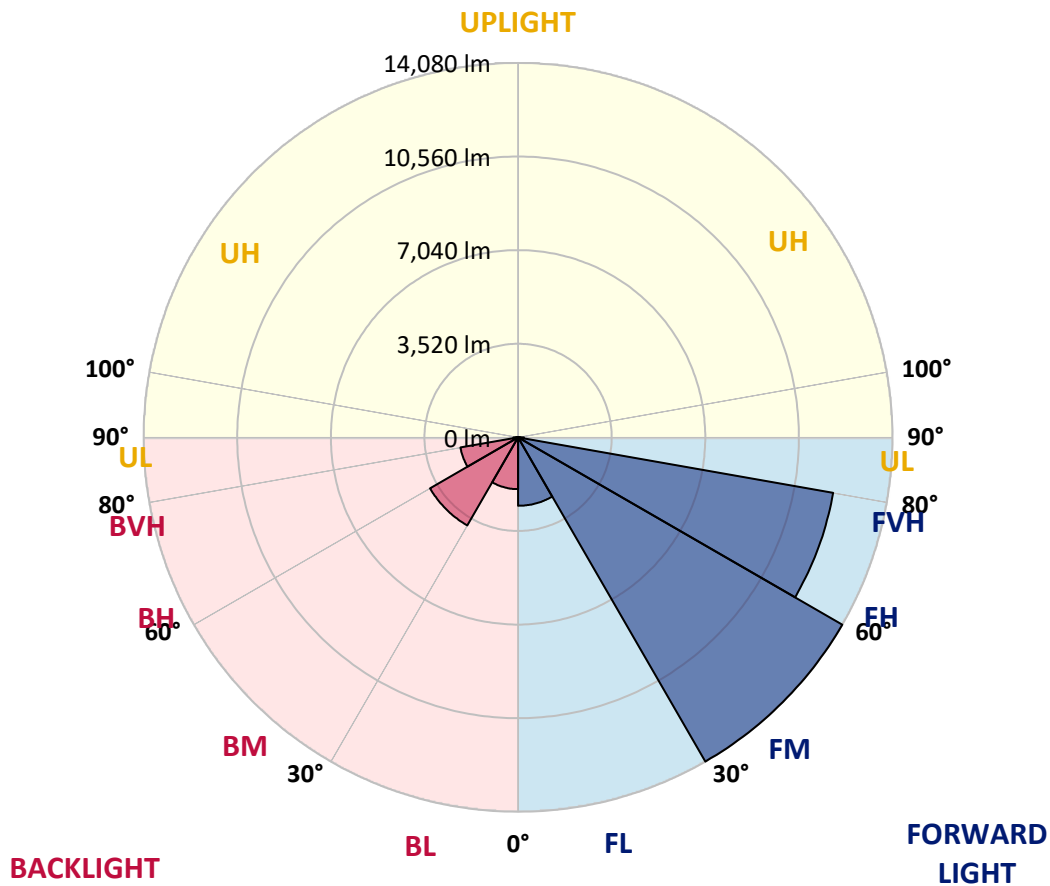
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2573.6	6.9			
FM (30°-60°)	14080.0	38.0			
FH (60°-80°)	12031.2	32.5			G5
FVH (80°-90°)	220.3	0.6			G2/225
BL (0°-30°)	1948.3	5.3	B3/2500		
BM (30°-60°)	3824.0	10.3	B3/5000		
BH (60°-80°)	2198.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	175.1	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0 <td></td> <td>U0/0</td> <td></td>		U0/0	

BUG Rating: B3-U0-G5

Type III Short





REPORT NUMBER: P640699

CATALOG NUMBER: GWS-SA5E-735-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4
2.5°	4528.1	4522.8	4520.2	4536.1	4530.8	4528.1	4528.1	4525.5	4520.2	4498.9	4469.7
5°	4652.9	4642.3	4631.6	4644.9	4634.3	4623.7	4621.0	4615.7	4597.1	4565.3	4520.2
7.5°	4782.9	4772.3	4775.0	4782.9	4775.0	4769.7	4761.7	4756.4	4727.2	4676.8	4615.7
10°	4966.1	4966.1	4971.4	4979.4	4982.0	4974.0	4958.1	4950.2	4915.6	4851.9	4767.0
12.5°	5231.5	5226.2	5226.2	5220.9	5228.9	5220.9	5205.0	5191.7	5149.2	5066.9	4944.8
15°	5581.9	5560.6	5542.1	5507.5	5496.9	5467.7	5473.0	5465.1	5425.3	5313.8	5159.8
17.5°	5956.1	5953.5	5924.3	5855.3	5786.2	5738.5	5749.1	5746.4	5725.2	5573.9	5377.5
20°	6285.2	6298.5	6272.0	6218.9	6126.0	6035.7	6030.4	6043.7	6017.2	5865.9	5592.5
22.5°	6654.2	6643.6	6617.0	6548.0	6479.0	6383.4	6351.6	6341.0	6330.4	6157.8	5812.8
25°	7004.5	7036.4	7001.9	6938.2	6832.0	6728.5	6702.0	6712.6	6683.4	6455.1	6049.0
27.5°	7447.8	7461.1	7439.8	7352.2	7262.0	7116.0	7065.6	7065.6	7055.0	6733.8	6234.8
30°	7920.2	7957.4	7920.2	7848.6	7755.7	7546.0	7437.2	7426.6	7394.7	7020.5	6452.5
32.5°	8395.4	8421.9	8395.4	8326.3	8220.2	8037.0	7880.4	7856.5	7814.1	7333.7	6675.4
35°	8817.4	8841.3	8836.0	8851.9	8764.3	8533.4	8437.8	8427.2	8315.7	7742.4	6978.0
37.5°	9279.2	9308.4	9268.6	9300.5	9265.9	9048.3	9019.1	8966.0	8806.8	8127.3	7296.5
40°	9804.8	9831.3	9767.6	9780.9	9741.1	9619.0	9470.3	9398.7	9162.4	8544.0	7798.2
42.5°	10367.5	10428.5	10457.7	10433.8	10340.9	10271.9	10011.8	9921.5	9725.1	9295.1	8623.6
45°	11182.3	11272.6	11315.0	11254.0	11214.2	11116.0	10797.4	10688.6	10585.1	10354.2	9775.6
47.5°	12060.9	12143.1	12278.5	12305.1	12336.9	12262.6	11814.0	11707.8	11726.4	11699.9	11192.9
50°	12761.6	12830.6	13135.8	13462.3	13733.0	13754.3	13180.9	13066.8	13167.7	13252.6	12899.6
52.5°	13271.2	13332.2	13735.7	14409.9	15023.0	15476.9	14858.4	14728.4	14810.7	15001.8	14839.8
55°	13685.3	13770.2	14192.2	15227.4	16466.9	17183.5	16788.1	16623.5	16589.0	16825.2	16918.1
57.5°	13902.9	13929.4	14521.3	15867.0	17525.9	18858.4	19030.9	18845.1	18516.0	18646.0	19129.1
60°	13406.6	13451.7	14261.2	16031.6	18362.0	20519.9	21385.2	21231.3	20530.5	20602.2	21135.7
62.5°	12034.3	12098.0	13072.1	15248.6	18431.0	21629.4	23559.0	23460.8	22521.2	22133.7	22293.0
65°	9653.5	9674.7	10683.3	13311.0	17058.8	21767.4	25074.6	25050.7	23912.0	23004.3	22322.1
67.5°	5504.9	5467.7	6816.1	9494.2	14078.1	19973.1	25172.8	25313.5	24363.3	22861.0	20464.2
70°	2386.2	2391.5	3012.6	4684.7	9112.0	16143.1	23381.2	23622.7	23057.4	20474.8	16281.1
72.5°	1104.2	1120.1	1388.2	2027.8	3891.1	10014.4	19065.4	19283.0	18797.3	16387.3	11845.9
75°	780.3	793.6	926.3	1162.6	1789.0	3901.7	12753.6	13210.1	13446.4	12257.3	7806.1
77.5°	591.9	610.5	676.8	806.9	1104.2	1382.9	6102.1	7190.3	8565.2	7625.6	4021.2
80°	376.9	376.9	448.6	538.8	674.2	719.3	1762.4	2088.9	4191.0	3142.6	1579.3
82.5°	254.8	262.8	305.2	342.4	387.5	408.8	756.5	806.9	1210.3	1069.7	650.3
85°	135.4	140.7	159.3	156.6	185.8	161.9	318.5	315.9	443.3	485.7	246.8
87.5°	0.0	0.0	2.7	2.7	5.3	8.0	34.5	37.2	92.9	148.6	82.3
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°	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4	4464.4
2.5°	4485.7	4453.8	4469.7	4464.4	4480.4	4480.4	4451.2	4443.2	4445.8	4414.0	4403.4
5°	4525.5	4488.3	4496.3	4485.7	4501.6	4514.9	4501.6	4501.6	4517.5	4493.6	4480.4
7.5°	4615.7	4573.3	4573.3	4560.0	4578.6	4589.2	4578.6	4594.5	4623.7	4599.8	4586.5
10°	4759.0	4708.6	4711.3	4695.3	4703.3	4698.0	4655.5	4642.3	4650.2	4629.0	4618.4
12.5°	4944.8	4875.8	4875.8	4844.0	4825.4	4769.7	4682.1	4650.2	4655.5	4637.0	4629.0
15°	5122.7	5059.0	5045.7	4982.0	4897.1	4793.6	4713.9	4692.7	4698.0	4679.4	4666.2
17.5°	5332.4	5250.1	5202.3	5085.5	4928.9	4822.8	4743.1	4692.7	4650.2	4607.8	4597.1
20°	5526.1	5422.6	5335.0	5154.5	4963.4	4817.4	4668.8	4544.1	4440.5	4384.8	4371.5
22.5°	5725.2	5592.5	5438.5	5202.3	4960.8	4721.9	4448.5	4260.1	4106.1	4023.8	4039.8
25°	5913.6	5746.4	5536.7	5247.4	4875.8	4509.6	4138.0	3856.6	3681.4	3617.7	3599.1
27.5°	6070.2	5863.2	5627.0	5226.2	4700.7	4204.3	3713.3	3400.1	3230.2	3158.5	3140.0
30°	6245.4	6011.9	5757.0	5128.0	4424.6	3777.0	3232.9	2978.1	2856.0	2787.0	2789.6
32.5°	6447.1	6203.0	5940.2	4939.5	4071.6	3315.1	2837.4	2662.2	2564.0	2495.0	2484.4
35°	6717.9	6476.3	6062.3	4655.5	3623.0	2890.5	2566.6	2423.3	2301.2	2211.0	2192.4
37.5°	7052.3	6887.7	6075.6	4276.0	3142.6	2598.5	2372.9	2218.9	2070.3	1950.9	1937.6
40°	7625.6	7437.2	5966.7	3800.9	2733.9	2410.0	2211.0	2033.1	1860.6	1727.9	1709.3
42.5°	8443.1	8055.6	5733.2	3264.7	2426.0	2261.4	2057.0	1831.4	1656.2	1563.3	1550.1
45°	9483.6	8745.7	5382.8	2760.4	2197.7	2115.4	1895.1	1658.9	1566.0	1499.6	1486.4
47.5°	10757.6	9550.0	4979.4	2367.6	2019.9	1982.7	1730.6	1600.5	1518.2	1462.5	1449.2
50°	12281.2	10574.5	4647.6	2059.7	1860.6	1828.8	1677.5	1566.0	1499.6	1454.5	1443.9
52.5°	14019.7	11713.2	4485.7	1839.4	1722.6	1690.8	1658.9	1558.0	1502.3	1467.8	1454.5
55°	15824.6	12912.9	4334.4	1669.5	1605.8	1624.4	1661.6	1584.6	1542.1	1497.0	1483.7
57.5°	17568.4	14038.3	3962.8	1536.8	1520.9	1592.5	1674.8	1611.1	1560.7	1515.6	1499.6
60°	18770.8	14654.1	3333.7	1430.6	1457.2	1552.7	1640.3	1571.3	1507.6	1489.0	1481.1
62.5°	19094.6	14579.7	2587.9	1321.8	1380.2	1465.1	1550.1	1505.0	1438.6	1467.8	1470.4
65°	18338.1	13783.5	1942.9	1215.6	1279.3	1351.0	1457.2	1438.6	1414.7	1494.3	1497.0
67.5°	16196.2	11827.3	1481.1	1122.7	1175.8	1263.4	1428.0	1505.0	1510.3	1611.1	1600.5
70°	12254.6	8836.0	1159.9	1035.2	1096.2	1263.4	1520.9	1555.4	1491.7	1584.6	1563.3
72.5°	8472.3	5831.4	987.4	958.2	998.0	1205.0	1518.2	1518.2	1449.2	1449.2	1409.4
75°	5263.4	3429.3	860.0	860.0	860.0	1053.7	1475.8	1398.8	1276.7	1220.9	1189.1
77.5°	2598.5	1666.9	722.0	748.5	719.3	881.2	1205.0	1144.0	1069.7	1011.3	990.0
80°	1109.5	833.4	583.9	613.1	578.6	663.6	955.5	942.3	870.6	793.6	769.7
82.5°	509.6	430.0	467.1	480.4	422.0	499.0	698.1	698.1	658.3	552.1	512.3
85°	217.6	228.3	323.8	323.8	265.4	281.3	374.2	355.7	318.5	260.1	238.9
87.5°	74.3	111.5	164.6	143.3	55.7	23.9	13.3	5.3	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)