

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: P637370

Luminaire Tested: GWS-SA4C-760-U-SL2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637370
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-SL2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16680.3 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

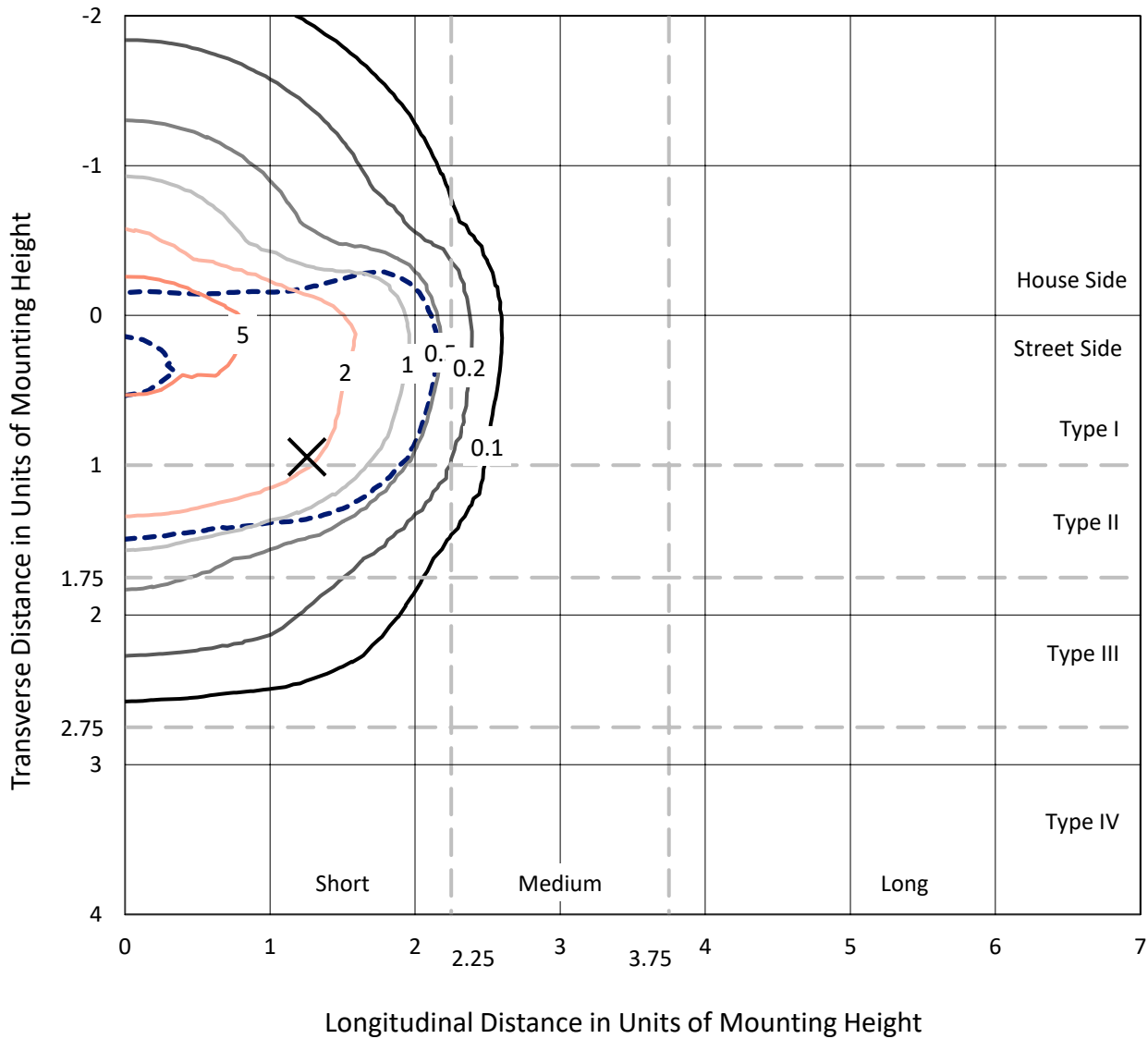
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

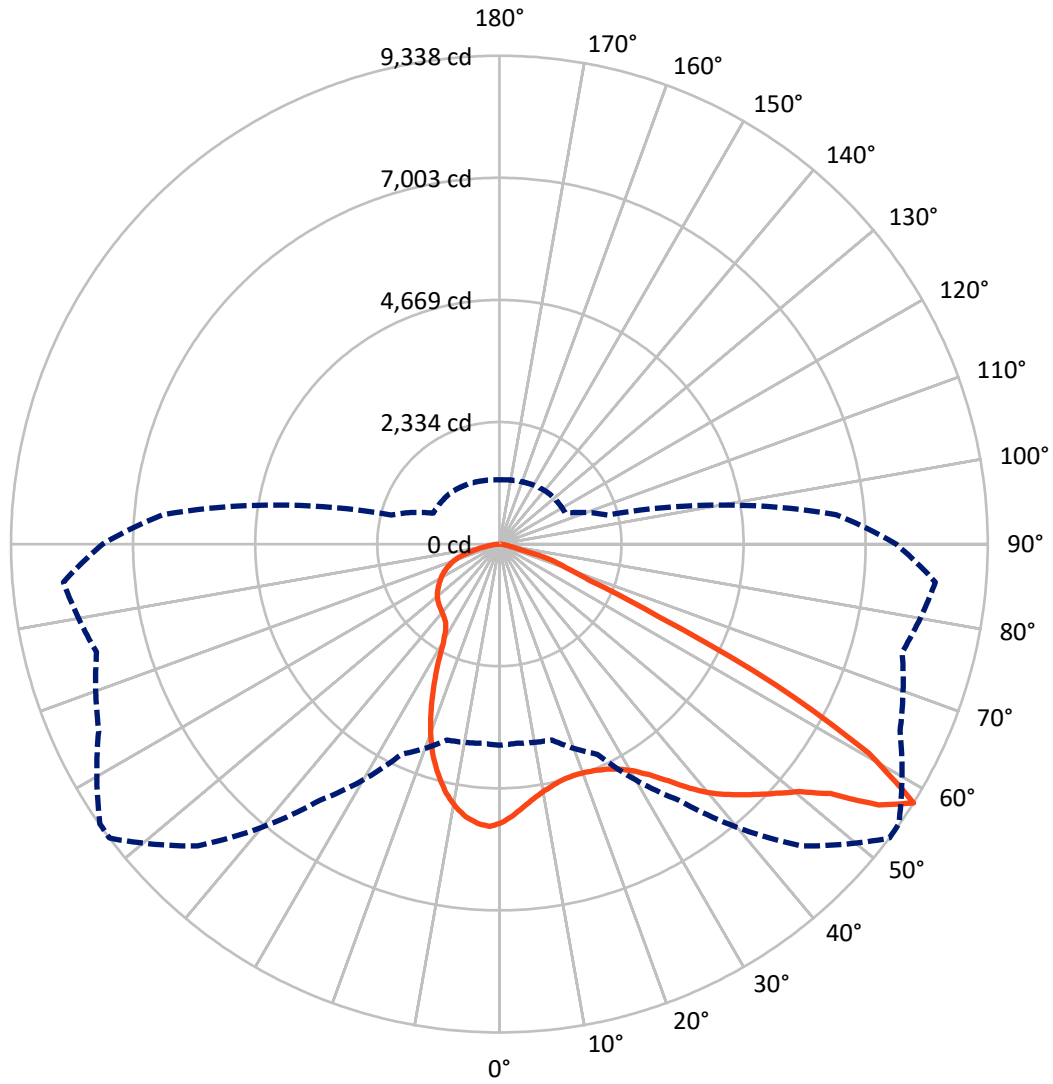
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5215.3	0.0	5215.3
	% Fixture	31.3	0.0	31.3
Street Side	Lumens	11465.0	0.0	11465.0
	% Fixture	68.7	0.0	68.7
Total	Lumens	16680.3	0.0	16680.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.7	2.9
10°-20°	1263.7	7.6
20°-30°	1861.9	11.2
30°-40°	2606.1	15.6
40°-50°	3425.9	20.5
50°-60°	4016.9	24.1
60°-70°	2366.4	14.2
70°-80°	588.7	3.5
80°-90°	69.1	0.4
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°	16680.3	100.0
0°-180°	16680.3	100.0

Coefficient of Utilization



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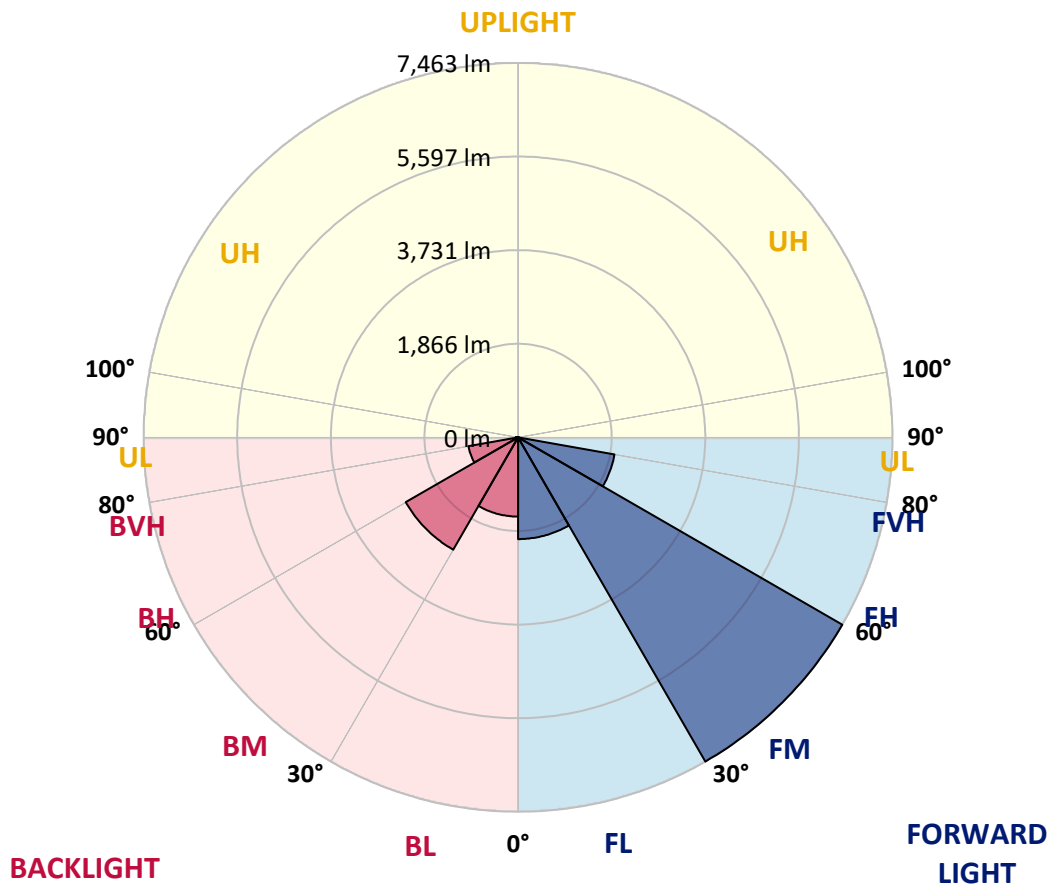
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2028.0	12.2			
FM (30°-60°)	7462.9	44.7			
FH (60°-80°)	1951.0	11.7			G2/5000
FVH (80°-90°)	23.1	0.1			G1/100
BL (0°-30°)	1579.2	9.5	B3/2500		
BM (30°-60°)	2586.0	15.5	B3/5000		
BH (60°-80°)	1004.1	6.0	B3/2500		G3/2500
BVH (80°-90°)	46.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5
2.5°	5020.4	5034.5	5037.3	5080.8	5083.6	5146.8	5188.9	5180.5	5224.0	5277.3	5319.5
5°	4780.3	4781.7	4795.8	4847.7	4875.8	4958.6	5028.8	5028.8	5113.1	5222.6	5316.6
7.5°	4582.4	4581.0	4593.6	4651.2	4697.5	4797.2	4892.7	4903.9	5021.8	5181.9	5334.9
10°	4398.5	4408.3	4422.3	4492.5	4551.5	4675.1	4788.8	4807.0	4955.8	5153.8	5360.2
12.5°	4280.6	4282.0	4303.0	4381.6	4457.4	4589.4	4708.7	4731.2	4902.5	5127.1	5378.4
15°	4204.7	4206.1	4228.6	4315.6	4404.1	4537.5	4659.6	4684.9	4871.6	5122.9	5413.5
17.5°	4171.0	4169.6	4190.7	4277.7	4374.6	4513.6	4644.2	4675.1	4885.6	5155.2	5475.3
20°	4171.0	4172.4	4183.7	4262.3	4360.6	4508.0	4659.6	4697.5	4940.4	5228.2	5570.8
22.5°	4230.0	4235.6	4241.2	4294.6	4371.8	4516.4	4700.3	4750.9	5058.3	5350.3	5695.7
25°	4345.1	4346.5	4352.2	4395.7	4430.8	4540.3	4767.7	4843.5	5242.2	5528.6	5852.9
27.5°	4499.6	4519.2	4524.8	4552.9	4552.9	4599.2	4873.0	4982.5	5490.7	5785.6	6053.7
30°	4715.8	4722.8	4732.6	4763.5	4729.8	4710.1	5027.4	5167.8	5778.5	6095.8	6295.2
32.5°	4905.3	4920.7	4974.1	5024.6	4964.3	4902.5	5254.9	5420.5	6055.1	6418.7	6552.1
35°	5066.7	5104.7	5207.1	5319.5	5277.3	5215.6	5556.7	5729.4	6282.5	6650.4	6779.5
37.5°	5261.9	5291.4	5431.8	5614.3	5652.2	5622.7	5924.5	6048.1	6434.2	6709.3	6903.1
40°	5459.8	5504.8	5685.9	5938.6	6083.2	6104.2	6264.3	6347.1	6486.1	6594.2	6879.2
42.5°	5662.0	5739.2	5987.7	6282.5	6539.5	6587.2	6550.7	6585.8	6469.3	6435.6	6768.3
45°	5909.1	6000.4	6281.1	6657.4	6995.7	7070.1	6831.5	6799.2	6466.5	6375.2	6699.5
47.5°	6201.1	6292.4	6560.5	6998.5	7430.9	7485.7	7119.3	7060.3	6564.7	6467.9	6792.2
50°	6459.4	6522.6	6762.7	7252.6	7836.7	7869.0	7436.6	7365.0	6809.0	6724.8	7081.4
52.5°	6196.9	6189.9	6442.6	7046.3	8047.3	8436.2	7925.1	7856.3	7280.7	7151.6	7529.2
55°	5257.7	5177.7	5403.7	5997.5	7459.0	8940.2	8801.2	8663.6	7909.7	7581.2	7949.0
57.5°	3843.9	3821.5	3876.2	4433.6	5975.1	8159.6	9337.5	9324.8	8453.0	7974.3	8367.4
60°	3005.8	2972.1	2826.1	2841.5	4072.8	6373.8	8103.4	8475.5	8789.9	8210.1	8659.4
62.5°	2668.9	2643.6	2567.8	2358.6	2426.0	4273.5	5940.0	6281.1	7680.8	7251.2	7438.0
65°	2209.8	2202.7	2265.9	2257.5	2032.9	2360.0	3352.6	3696.5	4829.5	4889.9	4829.5
67.5°	1606.1	1593.4	1753.5	2069.4	1957.1	1781.6	1868.6	1987.9	2476.5	2223.8	2002.0
70°	1044.5	1026.3	1118.9	1495.2	1752.1	1552.7	1346.4	1326.7	1361.8	846.6	915.4
72.5°	700.6	679.5	678.1	822.7	1058.6	1045.9	1043.1	1033.3	922.4	668.3	741.3
75°	390.3	373.4	369.2	355.2	379.1	386.1	411.3	425.4	460.5	506.8	561.6
77.5°	66.0	64.6	81.4	103.9	143.2	183.9	227.4	240.1	296.2	351.0	386.1
80°	36.5	37.9	49.1	60.4	80.0	109.5	140.4	148.8	182.5	212.0	240.1
82.5°	19.7	19.7	25.3	32.3	43.5	57.6	75.8	82.8	105.3	123.5	143.2
85°	7.0	7.0	9.8	12.6	18.3	23.9	29.5	33.7	46.3	63.2	71.6
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	5.6	5.6	7.0	12.6	18.3
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°	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5	5326.5
2.5°	5354.5	5316.6	5368.6	5392.5	5400.9	5406.5	5370.0	5344.7	5336.3	5309.6	5294.2
5°	5374.2	5348.9	5398.1	5398.1	5363.0	5326.5	5252.1	5200.1	5163.6	5120.1	5113.1
7.5°	5407.9	5389.6	5416.3	5361.6	5273.1	5174.8	5045.7	4944.6	4863.2	4809.8	4811.2
10°	5452.8	5430.4	5409.3	5287.2	5125.7	4944.6	4746.7	4599.2	4464.5	4402.7	4369.0
12.5°	5482.3	5450.0	5361.6	5159.4	4922.1	4679.3	4399.9	4180.9	3985.7	3897.3	3890.3
15°	5518.8	5459.8	5282.9	4993.7	4663.8	4332.5	3973.1	3668.4	3404.5	3266.9	3259.9
17.5°	5566.5	5469.7	5188.9	4804.2	4391.5	3902.9	3450.8	3067.6	2786.8	2680.1	2698.3
20°	5633.9	5480.9	5082.2	4593.6	4053.1	3414.3	2851.4	2499.0	2390.9	2383.9	2369.8
22.5°	5709.7	5487.9	4964.3	4357.8	3643.2	2893.5	2355.8	2205.6	2204.2	2239.3	2247.7
25°	5795.4	5493.5	4830.9	4082.6	3199.5	2374.0	2083.4	2038.5	2073.6	2139.6	2148.0
27.5°	5904.9	5504.8	4669.4	3780.8	2727.8	2051.1	1933.2	1922.0	1964.1	2025.9	2023.0
30°	6066.3	5545.5	4498.2	3434.0	2243.5	1898.1	1841.9	1843.3	1860.2	1889.7	1893.9
32.5°	6230.6	5608.7	4331.1	3043.7	1965.5	1811.1	1785.8	1783.0	1783.0	1795.6	1798.4
35°	6386.4	5680.3	4150.0	2636.6	1830.7	1760.5	1743.7	1735.2	1731.0	1728.2	1724.0
37.5°	6473.5	5715.4	3973.1	2235.0	1759.1	1726.8	1710.0	1698.7	1683.3	1672.1	1669.3
40°	6435.6	5674.6	3768.1	1934.6	1715.6	1694.5	1674.9	1659.4	1638.4	1628.5	1622.9
42.5°	6309.2	5548.3	3544.9	1792.8	1680.5	1659.4	1635.6	1610.3	1596.3	1587.8	1586.4
45°	6175.8	5395.3	3275.3	1710.0	1646.8	1621.5	1593.4	1565.4	1549.9	1545.7	1544.3
47.5°	6171.6	5319.5	2988.9	1644.0	1606.1	1580.8	1545.7	1517.6	1500.8	1495.2	1489.6
50°	6356.9	5396.7	2666.0	1586.4	1564.0	1537.3	1498.0	1467.1	1446.0	1439.0	1437.6
52.5°	6741.6	5687.3	2376.8	1528.9	1507.8	1476.9	1444.6	1413.7	1388.5	1375.8	1374.4
55°	7157.2	6056.5	2197.1	1469.9	1441.8	1415.2	1385.7	1352.0	1323.9	1304.2	1301.4
57.5°	7586.8	6459.4	2142.4	1395.5	1374.4	1356.2	1321.1	1284.6	1252.3	1234.0	1229.8
60°	7940.6	6806.2	2244.9	1316.9	1305.6	1281.8	1249.5	1214.4	1191.9	1177.9	1175.1
62.5°	6647.6	5541.3	1812.5	1231.2	1231.2	1206.0	1169.5	1144.2	1128.8	1118.9	1116.1
65°	4218.8	3431.2	1236.9	1145.6	1144.2	1110.5	1079.6	1062.8	1055.7	1040.3	1037.5
67.5°	1837.7	1568.2	1057.2	1058.6	1052.9	1016.4	985.6	972.9	958.9	942.0	940.6
70°	953.3	971.5	946.2	961.7	951.9	908.3	878.9	859.2	829.7	812.9	814.3
72.5°	769.3	789.0	817.1	840.9	819.9	784.8	738.5	714.6	676.7	658.4	659.8
75°	586.8	607.9	634.6	659.8	643.0	599.5	570.0	546.1	502.6	481.5	485.8
77.5°	404.3	415.6	447.9	446.4	440.8	428.2	384.7	356.6	311.7	286.4	289.2
80°	251.3	258.3	273.8	280.8	278.0	261.1	226.0	205.0	178.3	162.9	164.3
82.5°	151.6	155.8	169.9	171.3	169.9	157.2	130.6	115.1	98.3	89.9	89.9
85°	77.2	80.0	88.4	88.4	80.0	67.4	60.4	53.3	43.5	39.3	39.3
87.5°	21.1	21.1	26.7	22.5	18.3	16.8	8.4	7.0	2.8	1.4	1.4
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)