

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: P639707

Luminaire Tested: GWS-SA5C-735-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-735-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20045.6 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

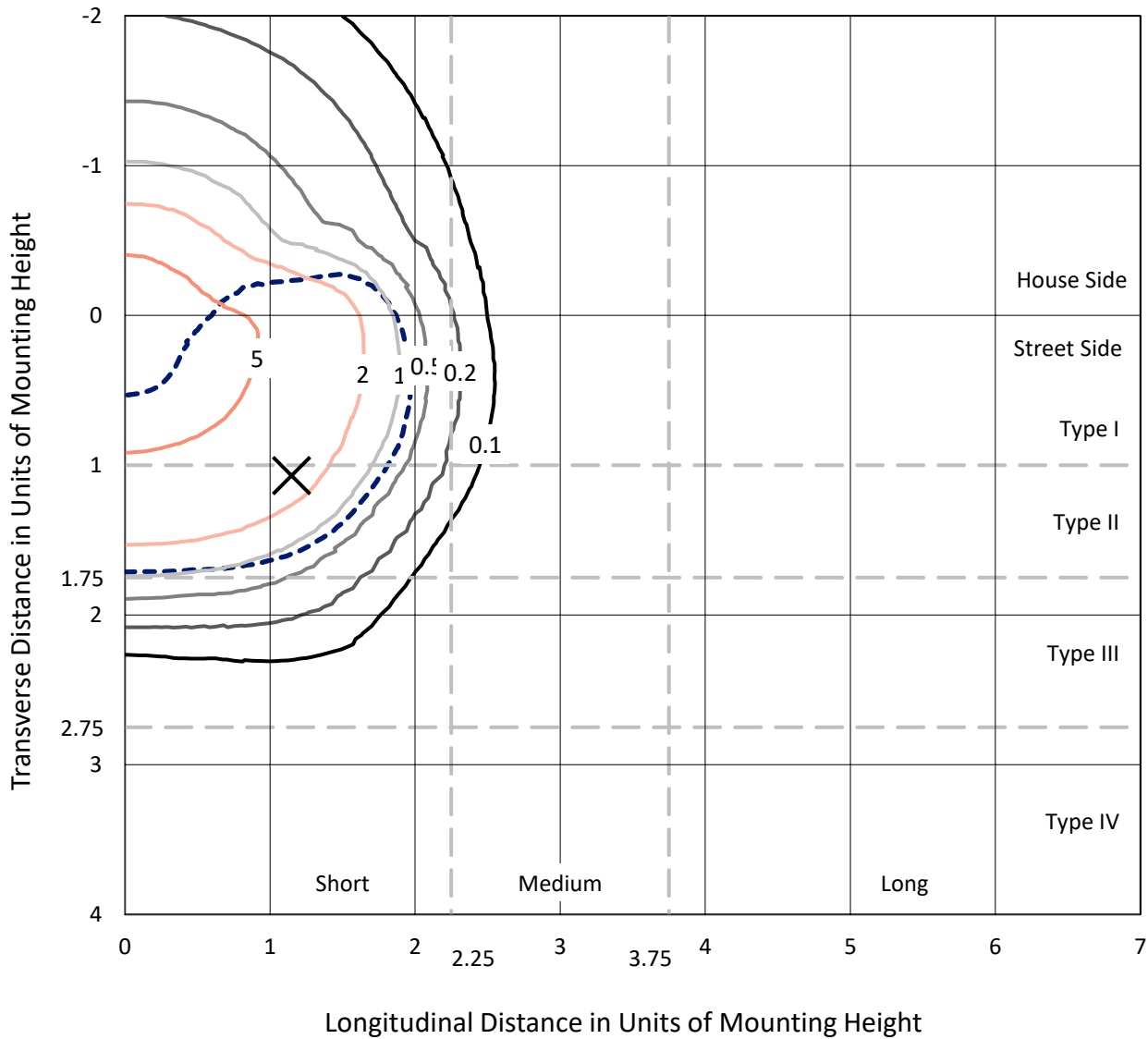
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

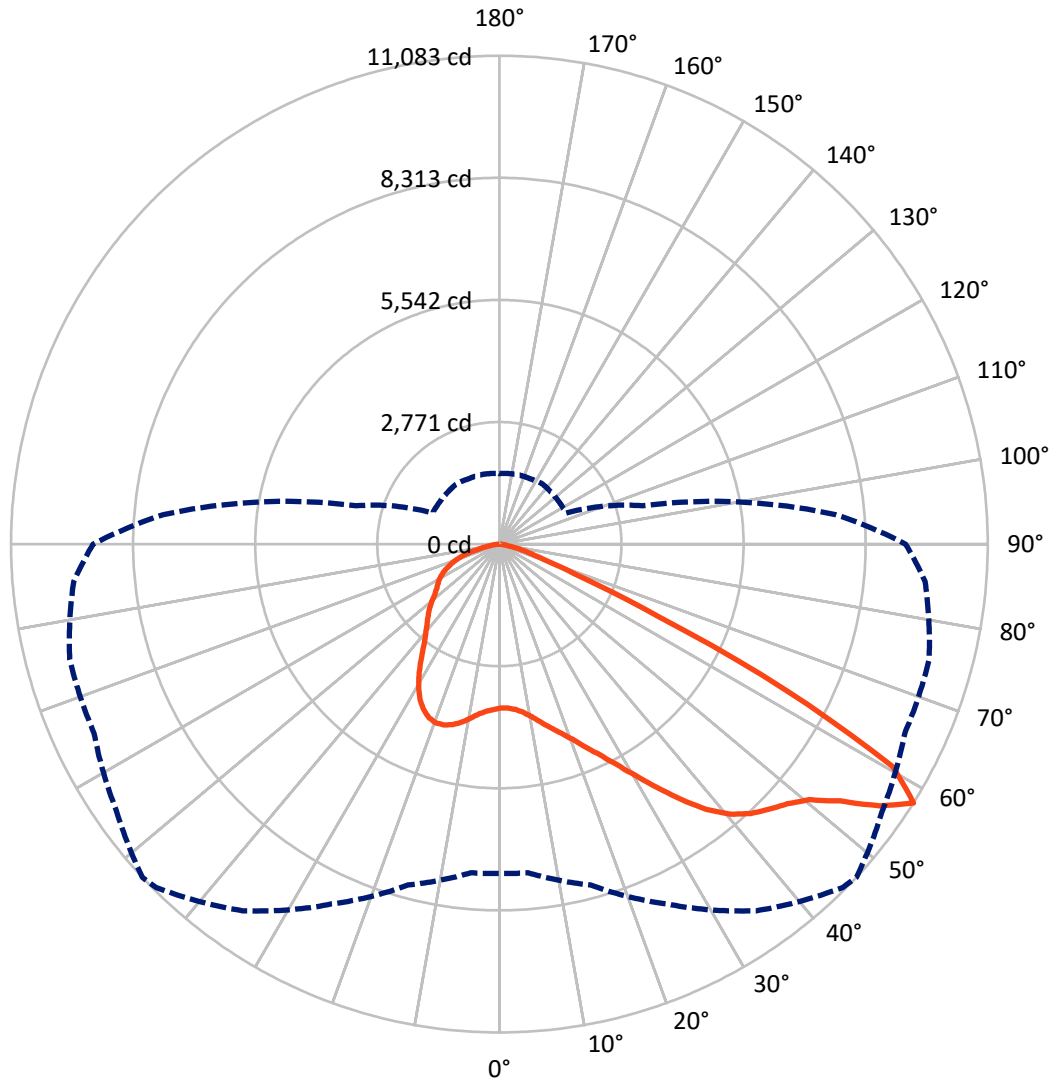
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6344.4	0.0	6344.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	13701.2	0.0	13701.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	20045.6	0.0	20045.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.7	1.8
10°-20°	1206.0	6.0
20°-30°	2171.5	10.8
30°-40°	3279.8	16.4
40°-50°	4416.6	22.0
50°-60°	5307.2	26.5
60°-70°	2584.7	12.9
70°-80°	636.8	3.2
80°-90°	76.5	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°	20045.6	100.0
0°-180°	20045.6	100.0

Coefficient of Utilization



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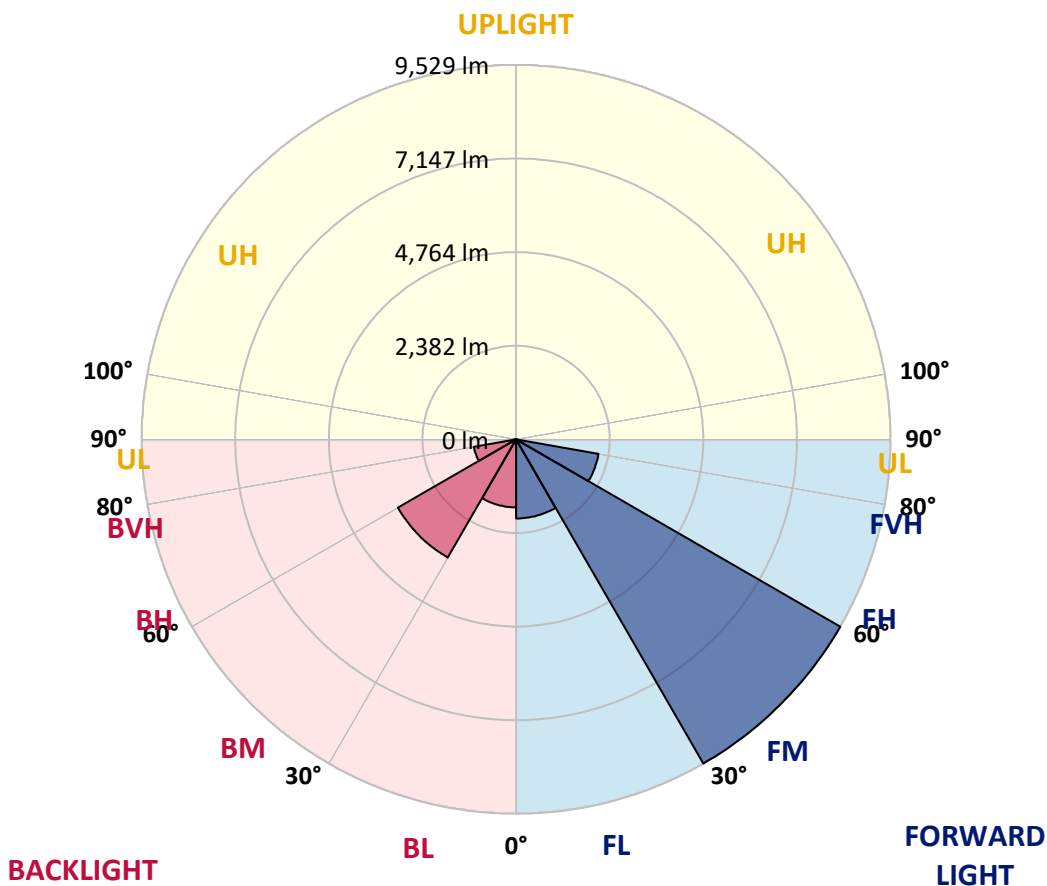
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2013.5	10.0			
FM (30°-60°)	9528.7	47.5			
FH (60°-80°)	2130.2	10.6			G2/5000
FVH (80°-90°)	28.8	0.1			G1/100
BL (0°-30°)	1730.6	8.6	B3/2500		
BM (30°-60°)	3474.8	17.3	B3/5000		
BH (60°-80°)	1091.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	47.8	0.2			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°	47°	55°	65°	75°	85°
0°	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5
2.5°	3710.8	3709.1	3709.1	3719.2	3719.2	3722.5	3727.6	3732.6	3734.3	3725.9	3707.4
5°	3751.2	3751.2	3751.2	3759.6	3759.6	3762.9	3769.7	3771.4	3769.7	3756.2	3737.7
7.5°	3815.1	3815.1	3816.8	3826.9	3835.3	3840.4	3852.2	3850.5	3845.4	3823.6	3800.0
10°	3919.5	3924.6	3929.6	3941.4	3958.2	3970.0	3978.5	3978.5	3971.7	3938.0	3907.7
12.5°	4067.7	4074.4	4079.5	4089.6	4103.0	4123.2	4141.8	4141.8	4133.3	4091.3	4045.8
15°	4241.1	4247.8	4246.1	4249.5	4274.8	4303.4	4318.5	4328.6	4332.0	4273.1	4202.4
17.5°	4439.8	4446.5	4439.8	4429.7	4433.0	4478.5	4505.4	4542.5	4564.4	4485.2	4372.4
20°	4619.9	4613.2	4613.2	4619.9	4630.0	4685.6	4726.0	4786.6	4813.5	4717.6	4542.5
22.5°	4810.2	4825.3	4818.6	4818.6	4859.0	4951.6	5000.4	5079.6	5108.2	4983.6	4747.9
25°	5056.0	5069.5	5066.1	5069.5	5116.6	5247.9	5296.7	5443.2	5471.8	5293.4	4975.2
27.5°	5325.4	5347.3	5357.4	5354.0	5429.8	5601.5	5662.1	5865.8	5918.0	5640.2	5217.6
30°	5675.6	5699.1	5707.6	5704.2	5793.4	6027.4	6096.5	6328.8	6402.9	6051.0	5525.7
32.5°	6081.3	6104.9	6130.1	6140.2	6254.7	6493.8	6593.1	6833.9	6940.0	6525.8	5897.8
35°	6483.7	6503.9	6552.7	6631.9	6788.5	7032.6	7120.1	7357.5	7460.2	7019.1	6347.3
37.5°	6928.2	6941.7	6983.8	7093.2	7318.8	7551.1	7638.7	7866.0	7877.8	7495.6	6855.8
40°	7414.8	7414.8	7406.3	7514.1	7749.8	7983.8	8059.6	8190.9	8121.9	7862.6	7350.8
42.5°	7827.3	7820.5	7827.3	7928.3	8103.4	8293.6	8359.3	8334.0	8246.5	8143.8	7798.6
45°	8199.3	8204.4	8265.0	8342.5	8433.4	8546.2	8584.9	8441.8	8362.7	8369.4	8157.3
47.5°	8451.9	8456.9	8598.4	8728.0	8783.6	8818.9	8802.1	8603.4	8563.0	8638.8	8433.4
50°	8485.6	8512.5	8756.6	9022.6	9160.7	9165.8	9118.6	8876.2	8864.4	8950.3	8581.5
52.5°	8492.3	8519.2	8824.0	9303.8	9662.4	9738.2	9684.3	9431.8	9308.9	9223.0	8763.4
55°	8467.0	8497.4	8834.1	9492.4	10179.3	10482.4	10487.4	10130.5	9738.2	9681.0	9281.9
57.5°	7475.4	7487.2	8009.1	9012.5	10159.1	11017.8	11083.4	10598.5	10150.7	10096.8	9697.8
60°	5207.5	5254.7	5822.0	7147.1	8534.4	10048.0	10260.1	10118.7	9819.0	9426.7	8320.6
62.5°	2608.0	2648.4	3217.4	4470.1	5886.0	7081.4	7308.7	7458.5	7529.3	7108.3	5665.5
65°	1123.0	1153.3	1506.9	2335.2	3331.9	3909.4	3988.6	4168.7	4609.8	4113.1	3052.4
67.5°	750.9	771.1	951.3	1424.4	1963.1	2000.2	1988.4	2027.1	2123.1	1752.7	1378.9
70°	575.8	592.6	713.9	1043.9	1410.9	1207.2	1143.2	1037.1	1126.4	1148.2	1117.9
72.5°	417.5	431.0	521.9	712.2	883.9	771.1	761.0	814.9	936.1	969.8	951.3
75°	269.4	276.1	331.7	390.6	456.3	495.0	515.2	612.8	735.8	761.0	739.1
77.5°	180.1	185.2	217.2	250.9	259.3	261.0	267.7	311.5	395.7	442.8	437.7
80°	94.3	94.3	106.1	106.1	121.2	144.8	151.5	180.1	218.9	242.4	244.1
82.5°	37.0	38.7	45.5	50.5	60.6	74.1	79.1	94.3	114.5	131.3	146.5
85°	15.2	16.8	18.5	21.9	26.9	33.7	35.4	40.4	53.9	67.3	75.8
87.5°	0.0	0.0	1.7	1.7	3.4	5.1	5.1	6.7	8.4	15.2	20.2
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°	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5	3717.5
2.5°	3729.3	3707.4	3729.3	3736.0	3754.5	3761.3	3749.5	3747.8	3747.8	3731.0	3725.9
5°	3754.5	3734.3	3756.2	3766.3	3793.2	3810.1	3813.5	3826.9	3835.3	3828.6	3826.9
7.5°	3816.8	3791.6	3815.1	3830.3	3865.6	3892.6	3904.4	3934.7	3956.6	3953.2	3951.5
10°	3926.3	3892.6	3919.5	3944.8	3983.5	4015.5	4017.2	4034.0	4055.9	4049.2	4045.8
12.5°	4052.5	4020.5	4050.8	4076.1	4121.6	4135.0	4113.1	4106.4	4109.8	4101.4	4094.6
15°	4207.4	4162.0	4188.9	4217.5	4242.8	4227.6	4180.5	4162.0	4160.3	4148.5	4141.8
17.5°	4362.3	4305.1	4325.3	4340.4	4328.6	4281.5	4222.6	4190.6	4175.4	4151.9	4145.1
20°	4515.5	4443.1	4439.8	4428.0	4374.1	4288.2	4209.1	4145.1	4106.4	4074.4	4062.6
22.5°	4690.6	4589.6	4539.1	4485.2	4367.4	4227.6	4108.1	4017.2	3954.9	3914.5	3901.0
25°	4879.2	4736.1	4631.7	4524.0	4300.0	4098.0	3931.3	3806.7	3732.6	3688.9	3673.7
27.5°	5066.1	4869.1	4712.5	4529.0	4165.3	3911.1	3687.2	3518.8	3444.7	3409.4	3397.6
30°	5318.6	5045.9	4808.5	4463.3	3988.6	3651.8	3372.3	3202.3	3153.5	3128.2	3118.1
32.5°	5609.9	5269.8	4936.4	4325.3	3762.9	3348.8	3054.1	2936.3	2902.6	2853.8	2852.1
35°	5993.8	5589.7	5057.7	4121.6	3478.4	3023.8	2810.0	2725.8	2665.2	2587.8	2581.0
37.5°	6441.6	5988.7	5123.3	3862.3	3146.7	2756.1	2628.2	2533.9	2436.2	2333.5	2320.1
40°	6904.6	6455.1	5128.4	3555.9	2821.8	2579.3	2471.6	2348.7	2227.5	2113.0	2097.8
42.5°	7391.2	6889.5	5039.1	3202.3	2555.8	2426.1	2316.7	2161.8	2025.4	1948.0	1939.6
45°	7825.6	7239.7	4837.1	2830.2	2358.8	2298.2	2158.4	1991.8	1919.4	1863.8	1852.0
47.5°	8167.4	7472.0	4564.4	2496.8	2198.8	2166.8	1985.0	1899.2	1843.6	1793.1	1781.3
50°	8335.7	7524.2	4209.1	2225.8	2050.7	2012.0	1887.4	1821.7	1784.7	1744.3	1734.2
52.5°	8544.5	7583.1	3902.7	1998.5	1905.9	1853.7	1806.5	1754.4	1727.4	1702.2	1693.7
55°	9024.3	7805.4	3741.1	1816.7	1767.8	1744.3	1737.5	1693.7	1685.3	1668.5	1653.3
57.5°	9219.6	7662.3	3358.9	1668.5	1658.4	1661.8	1678.6	1638.2	1629.8	1609.6	1599.5
60°	7414.8	5791.7	2274.6	1540.5	1567.5	1589.4	1606.2	1565.8	1554.0	1550.6	1537.2
62.5°	4751.2	3562.6	1587.7	1421.0	1461.4	1488.3	1498.4	1459.7	1451.3	1478.2	1479.9
65°	2473.3	1941.2	1288.0	1293.0	1326.7	1367.1	1387.3	1373.9	1370.5	1399.1	1400.8
67.5°	1262.7	1187.0	1123.0	1141.5	1168.4	1220.6	1267.8	1326.7	1346.9	1350.3	1352.0
70°	1075.8	1042.2	1010.2	1022.0	1050.6	1079.2	1124.7	1153.3	1119.6	1111.2	1107.8
72.5°	915.9	890.6	875.5	889.0	904.1	899.1	885.6	899.1	904.1	905.8	907.5
75°	712.2	693.7	681.9	683.6	683.6	665.0	639.8	624.6	607.8	594.3	594.3
77.5°	436.1	439.4	451.2	449.5	447.8	441.1	415.9	402.4	362.0	350.2	350.2
80°	249.2	254.2	266.0	269.4	269.4	261.0	235.7	220.6	202.0	193.6	191.9
82.5°	151.5	158.3	165.0	168.4	170.0	159.9	138.1	126.3	116.2	107.8	107.8
85°	79.1	82.5	89.2	90.9	85.9	75.8	64.0	58.9	48.8	47.1	47.1
87.5°	21.9	23.6	26.9	21.9	20.2	15.2	8.4	6.7	3.4	1.7	1.7
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)