

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: P636741

Luminaire Tested: GWS-SA4B-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-735-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

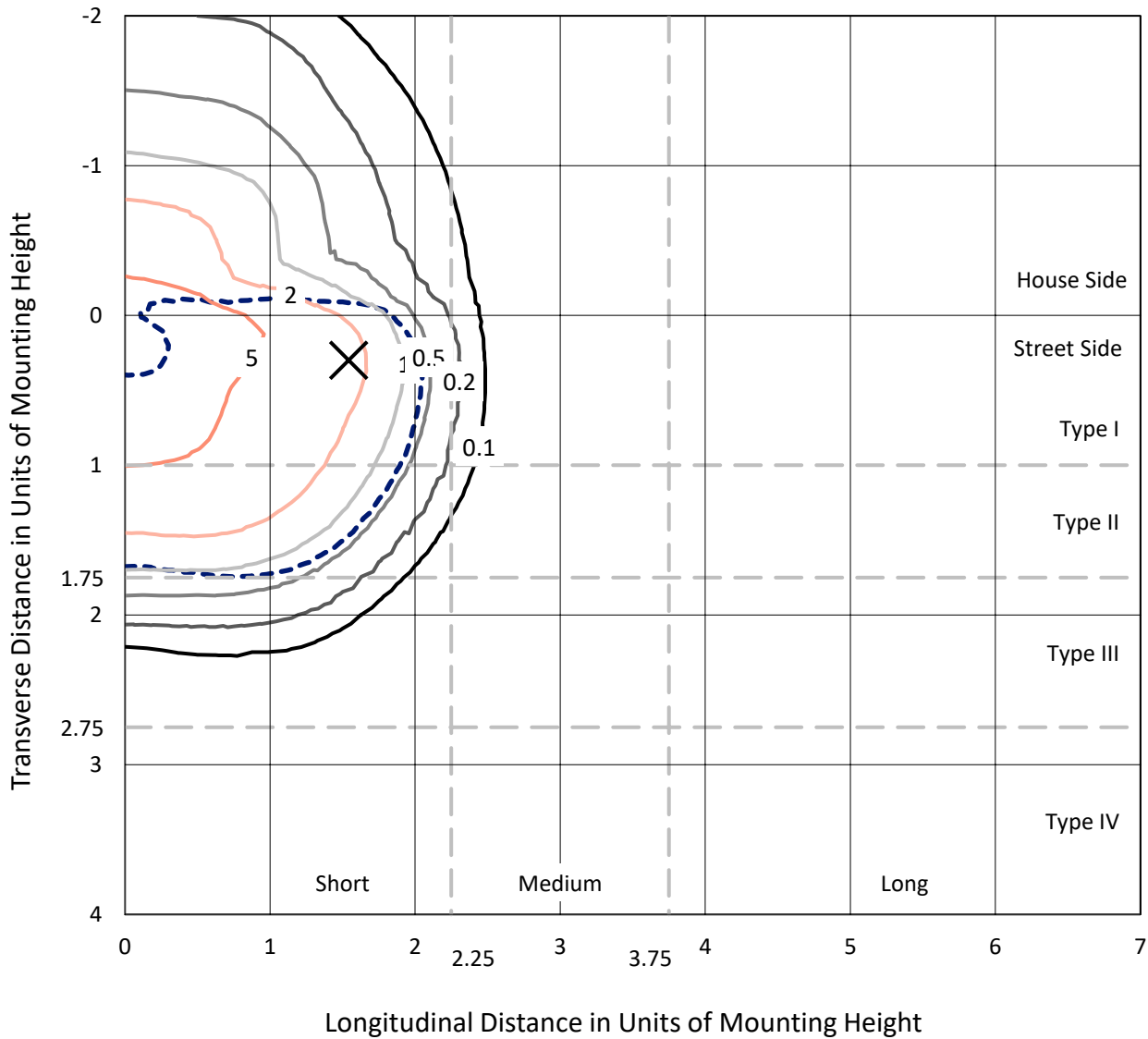
Lumens per Lamp: N/A  
Luminaire Lumens: 12516.2 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

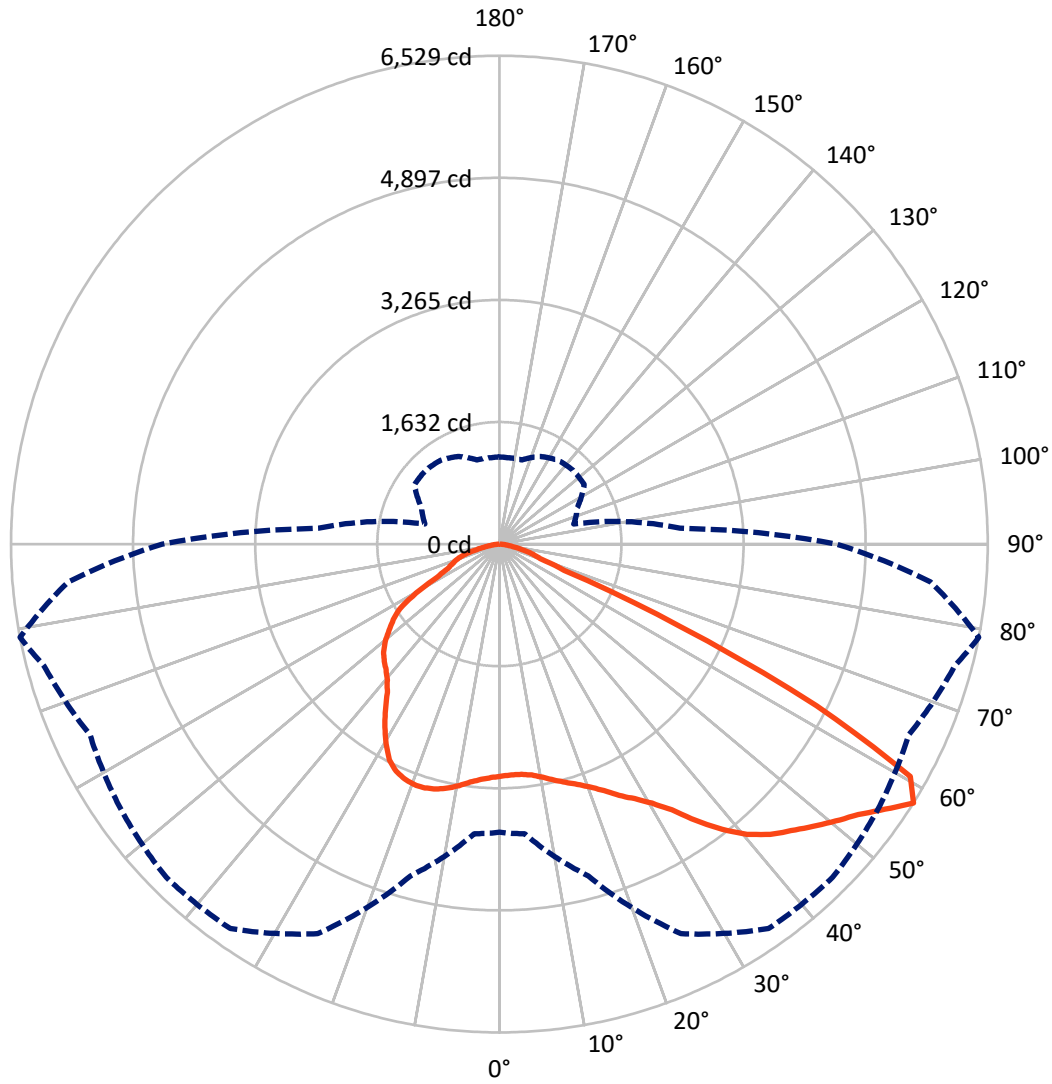
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3720.5	0.0	3720.5
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	8795.7	0.0	8795.7
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	12516.2	0.0	12516.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.3	2.3
10°-20°	798.3	6.4
20°-30°	1353.1	10.8
30°-40°	2071.1	16.5
40°-50°	2761.6	22.1
50°-60°	3189.5	25.5
60°-70°	1657.4	13.2
70°-80°	352.3	2.8
80°-90°	45.6	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°	12516.2	100.0
0°-180°	12516.2	100.0

**Coefficient of Utilization**



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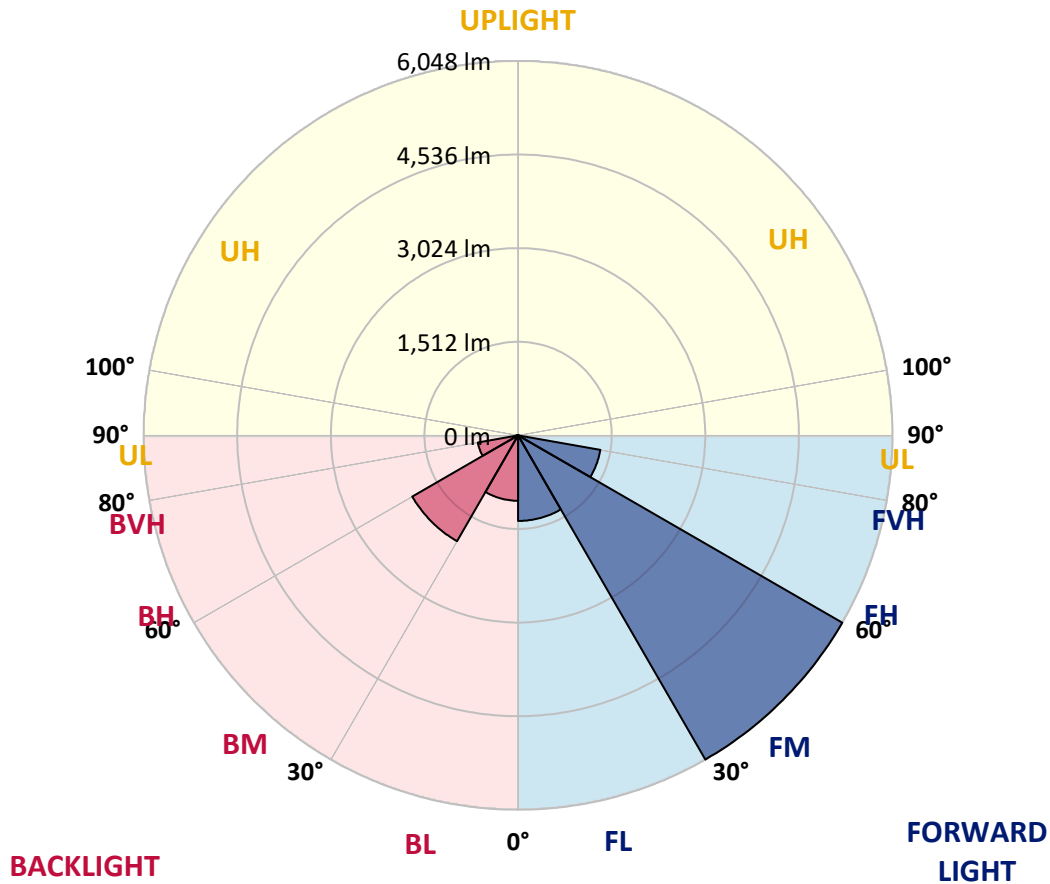
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1382.1	11.0			
FM (30°-60°)	6048.2	48.3			
FH (60°-80°)	1349.6	10.8			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	1056.6	8.4	B3/2500		
BM (30°-60°)	1974.1	15.8	B2/2500		
BH (60°-80°)	660.1	5.3	B2/1000		G2/1000
BVH (80°-90°)	29.7	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8
2.5°	2960.6	2954.4	2956.5	2964.7	2995.4	3017.9	3041.4	3062.9	3083.4	3089.5	3094.6
5°	2855.2	2843.9	2847.0	2860.3	2896.1	2934.0	2975.9	3027.1	3076.2	3092.6	3114.1
7.5°	2780.5	2778.4	2783.5	2804.0	2841.9	2877.7	2931.9	3004.6	3089.5	3117.2	3155.0
10°	2681.2	2677.1	2697.6	2739.5	2802.0	2859.3	2923.7	3009.7	3128.4	3169.3	3227.7
12.5°	2602.4	2600.4	2621.8	2680.2	2760.0	2851.1	2940.1	3036.3	3180.6	3236.9	3308.5
15°	2648.5	2639.2	2640.3	2681.2	2752.8	2860.3	2981.0	3084.4	3232.8	3304.4	3396.5
17.5°	2782.5	2766.1	2753.9	2761.0	2802.0	2913.5	3043.5	3148.9	3293.2	3377.1	3489.7
20°	2967.7	2958.5	2924.8	2902.2	2911.5	3009.7	3141.7	3240.0	3372.0	3466.1	3586.9
22.5°	3216.4	3193.9	3147.9	3112.0	3084.4	3161.2	3282.9	3367.9	3481.5	3579.7	3705.6
25°	3524.5	3491.7	3419.0	3362.8	3303.4	3382.2	3490.7	3555.2	3631.9	3723.0	3842.7
27.5°	3838.6	3811.0	3730.1	3654.4	3580.7	3629.9	3758.8	3795.6	3787.5	3854.0	3956.3
30°	4173.3	4138.5	4061.7	3979.8	3884.7	3916.4	4032.0	4050.5	3963.5	4018.7	4088.3
32.5°	4526.3	4492.5	4426.0	4330.9	4223.4	4235.7	4267.4	4284.8	4201.9	4233.6	4286.9
35°	4885.5	4853.8	4786.3	4692.1	4613.3	4538.6	4458.8	4528.4	4480.3	4541.7	4537.6
37.5°	5214.0	5182.3	5140.3	5067.7	4932.6	4785.2	4601.0	4687.0	4761.7	4839.5	4826.2
40°	5436.1	5414.6	5424.8	5413.6	5239.6	4947.9	4670.6	4764.8	4968.4	5101.4	5094.3
42.5°	5627.5	5606.0	5665.3	5708.3	5503.6	5098.4	4704.4	4794.4	5100.4	5308.2	5297.9
45°	5712.4	5706.3	5804.5	5940.6	5745.1	5258.0	4791.4	4855.8	5200.7	5466.8	5427.9
47.5°	5611.1	5632.6	5826.0	6056.2	5945.7	5447.3	4969.4	4985.8	5331.7	5638.7	5529.2
50°	5409.5	5456.6	5717.5	6059.3	6092.1	5661.2	5216.1	5175.1	5507.7	5821.9	5582.4
52.5°	5115.8	5164.9	5590.6	6035.8	6176.0	5908.9	5544.6	5486.2	5729.8	6005.1	5591.6
55°	4441.4	4507.9	5300.0	5982.6	6257.8	6134.0	5915.0	5796.3	6016.3	6256.8	5682.7
57.5°	3852.9	3887.7	4591.8	5746.2	6274.2	6299.8	6179.0	6037.8	6300.8	6529.0	5785.1
60°	2827.5	2835.7	3469.2	4754.5	5771.7	6203.6	6157.6	5947.8	6165.7	6311.1	5316.4
62.5°	1597.5	1598.5	2104.0	3173.4	4311.4	5056.4	5085.1	4899.8	4716.7	4759.6	3700.5
65°	599.7	656.0	960.9	1559.6	2485.7	2985.1	3103.9	3146.8	2841.9	2652.5	1984.3
67.5°	401.2	414.5	560.8	802.3	1106.3	1277.2	1428.6	1432.7	1047.9	934.3	781.8
70°	306.0	319.3	441.1	574.1	560.8	517.8	559.8	544.4	562.8	578.2	594.6
72.5°	228.2	241.5	341.8	405.3	336.7	331.6	375.6	417.5	456.4	472.8	498.4
75°	151.5	161.7	230.3	217.0	186.3	220.0	274.3	316.2	338.7	358.2	377.6
77.5°	96.2	103.4	122.8	99.3	103.4	128.9	159.6	197.5	219.0	238.4	248.7
80°	44.0	43.0	42.0	47.1	58.3	75.7	96.2	118.7	135.1	143.3	149.4
82.5°	17.4	19.4	21.5	25.6	31.7	40.9	54.2	69.6	82.9	84.9	90.1
85°	7.2	8.2	9.2	11.3	14.3	18.4	22.5	31.7	39.9	43.0	46.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	3.1	5.1	9.2	10.2	11.3
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°	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8	3101.8
2.5°	3122.3	3109.0	3131.5	3146.8	3161.2	3145.8	3140.7	3127.4	3125.3	3125.3	3132.5
5°	3150.9	3141.7	3165.3	3174.5	3173.4	3139.7	3119.2	3092.6	3079.3	3079.3	3081.3
7.5°	3202.1	3197.0	3210.3	3196.0	3163.2	3094.6	3027.1	2970.8	2932.9	2913.5	2919.6
10°	3287.0	3280.9	3269.6	3216.4	3122.3	2980.0	2841.9	2739.5	2678.1	2643.3	2645.4
12.5°	3369.9	3359.7	3319.8	3202.1	3008.7	2782.5	2601.4	2486.8	2419.2	2378.3	2369.1
15°	3461.0	3434.4	3348.4	3128.4	2823.4	2541.0	2351.7	2227.9	2155.2	2130.6	2129.6
17.5°	3548.0	3500.9	3345.4	2997.4	2601.4	2288.2	2097.9	2021.1	2008.9	2020.1	2023.2
20°	3636.0	3560.3	3311.6	2816.3	2337.4	2036.5	1938.2	1970.0	2016.0	2046.7	2053.9
22.5°	3727.1	3609.4	3234.8	2583.0	2059.0	1866.6	1907.5	1977.1	2034.4	2075.4	2079.5
25°	3829.4	3655.4	3120.2	2297.4	1835.9	1819.5	1900.4	1974.1	2035.5	2082.5	2090.7
27.5°	3887.7	3656.5	2959.6	2003.7	1733.6	1801.1	1883.0	1952.6	2014.0	2065.1	2074.4
30°	3945.1	3628.8	2704.7	1765.3	1703.9	1779.6	1853.3	1917.8	1976.1	2026.3	2037.5
32.5°	4025.9	3603.3	2411.0	1628.2	1686.5	1759.2	1819.5	1876.8	1921.9	1944.4	1950.5
35°	4126.2	3570.5	2098.9	1568.8	1675.2	1742.8	1796.0	1826.7	1768.4	1756.1	1769.4
37.5°	4266.4	3539.8	1787.8	1543.2	1668.1	1736.6	1783.7	1704.9	1633.3	1604.6	1614.9
40°	4417.8	3522.4	1577.0	1522.8	1671.1	1742.8	1732.5	1615.9	1512.5	1452.1	1450.1
42.5°	4546.8	3495.8	1441.9	1509.5	1679.3	1766.3	1663.0	1537.1	1383.6	1347.8	1348.8
45°	4633.8	3428.3	1370.3	1495.1	1686.5	1771.4	1630.2	1428.6	1319.1	1296.6	1295.6
47.5°	4669.6	3305.5	1324.2	1472.6	1685.5	1729.5	1563.7	1383.6	1274.1	1267.9	1272.0
50°	4646.1	3103.9	1277.2	1428.6	1660.9	1685.5	1486.9	1343.7	1243.4	1277.2	1301.7
52.5°	4559.1	2842.9	1220.9	1368.2	1616.9	1635.3	1448.1	1319.1	1220.9	1265.9	1285.3
55°	4536.6	2631.1	1149.2	1289.4	1551.4	1546.3	1407.1	1306.8	1205.5	1188.1	1191.2
57.5°	4506.9	2424.3	1030.5	1148.2	1385.6	1393.8	1368.2	1292.5	1165.6	1160.5	1165.6
60°	3915.4	1858.4	919.0	990.6	1138.0	1182.0	1324.2	1265.9	1101.1	1079.6	1078.6
62.5°	2557.4	1125.7	817.7	863.7	927.2	978.3	1207.6	1189.1	1030.5	1017.2	1026.4
65°	1375.4	802.3	744.0	771.6	806.4	845.3	1000.8	1059.2	931.3	884.2	885.2
67.5°	703.0	682.6	688.7	708.2	734.8	754.2	807.4	858.6	794.1	754.2	753.2
70°	601.7	618.1	627.3	638.6	656.0	652.9	658.0	667.2	662.1	642.7	641.6
72.5°	512.7	538.3	540.3	542.4	548.5	534.2	525.0	509.6	510.7	513.7	514.8
75°	389.9	414.5	420.6	417.5	423.7	405.3	393.0	377.6	359.2	356.1	358.2
77.5°	253.8	273.2	282.4	280.4	283.5	269.1	263.0	246.6	225.1	217.0	217.0
80°	153.5	164.8	171.9	174.0	177.0	166.8	156.6	142.2	133.0	123.8	123.8
82.5°	93.1	100.3	105.4	105.4	108.5	97.2	89.0	78.8	74.7	66.5	66.5
85°	47.1	52.2	54.2	53.2	51.2	42.0	38.9	33.8	31.7	27.6	27.6
87.5°	11.3	14.3	14.3	10.2	10.2	5.1	3.1	1.0	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)