

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: P639259

Luminaire Tested: GWS-SA5B-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-740-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14803.4 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

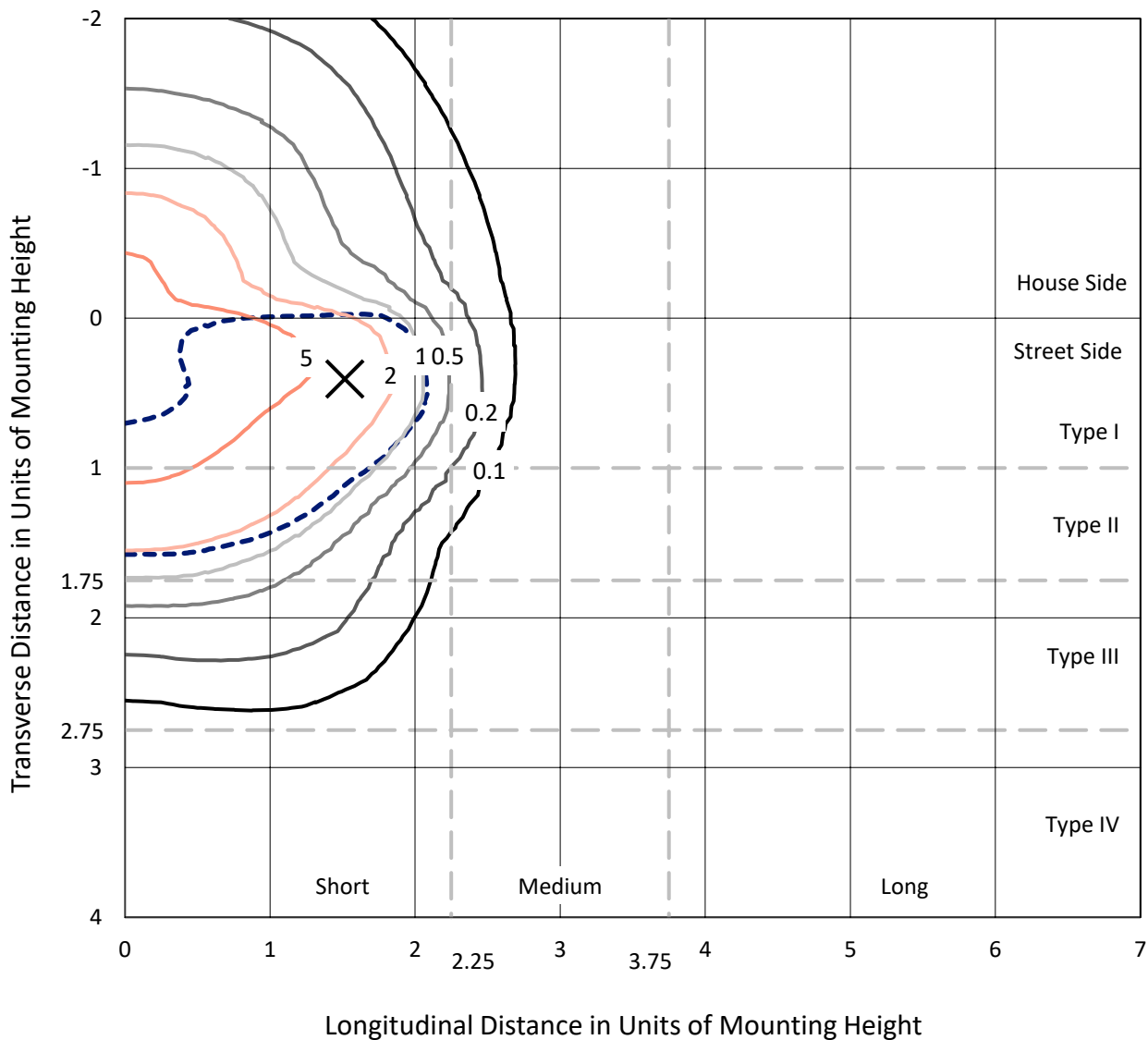
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

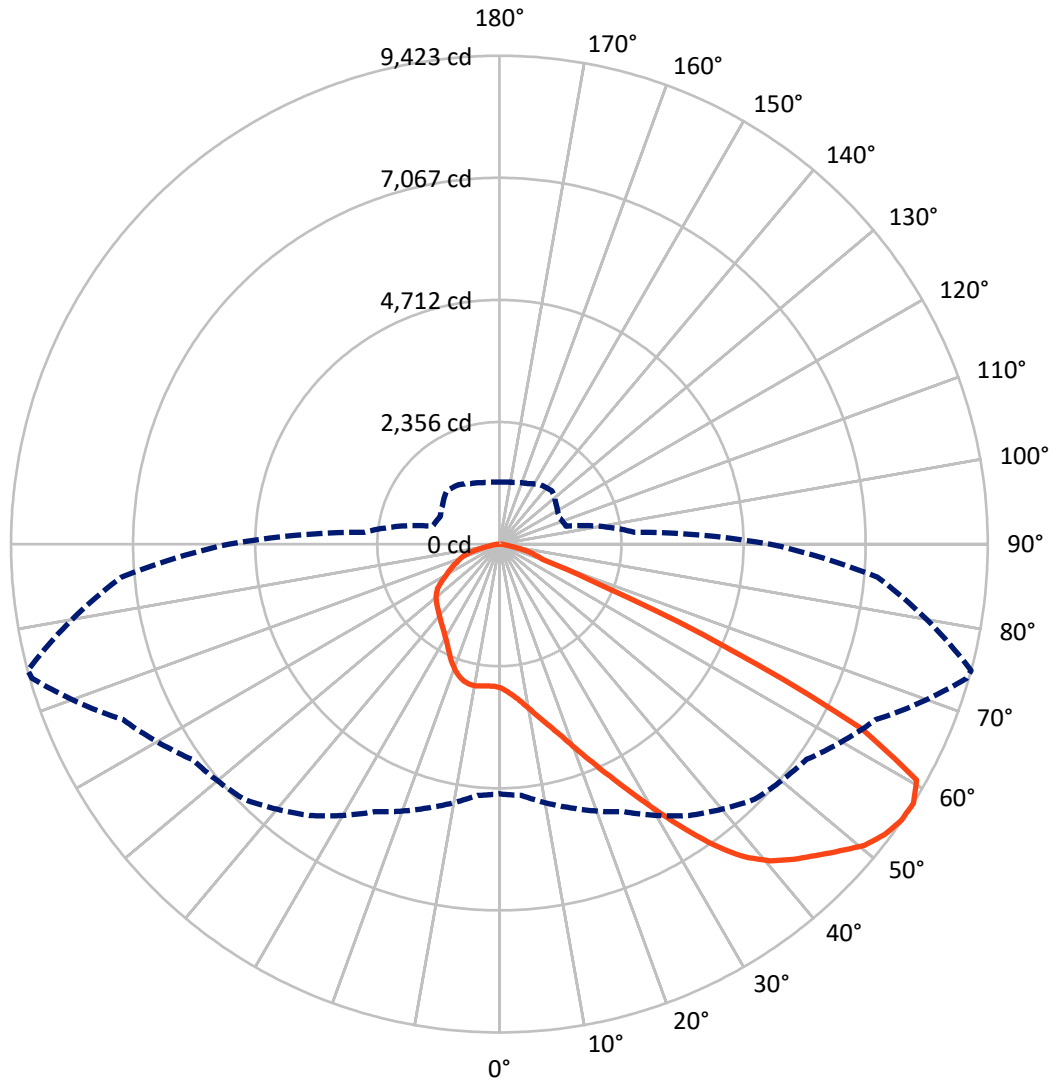
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4004.6	0.0	4004.6
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	10798.8	0.0	10798.8
	% Fixture	72.9	0.0	72.9
Total	Lumens	14803.4	0.0	14803.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	1.9
10°-20°	883.3	6.0
20°-30°	1566.4	10.6
30°-40°	2398.0	16.2
40°-50°	3338.9	22.6
50°-60°	3825.8	25.8
60°-70°	1965.8	13.3
70°-80°	494.9	3.3
80°-90°	52.9	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°	14803.4	100.0
0°-180°	14803.4	100.0

Coefficient of Utilization



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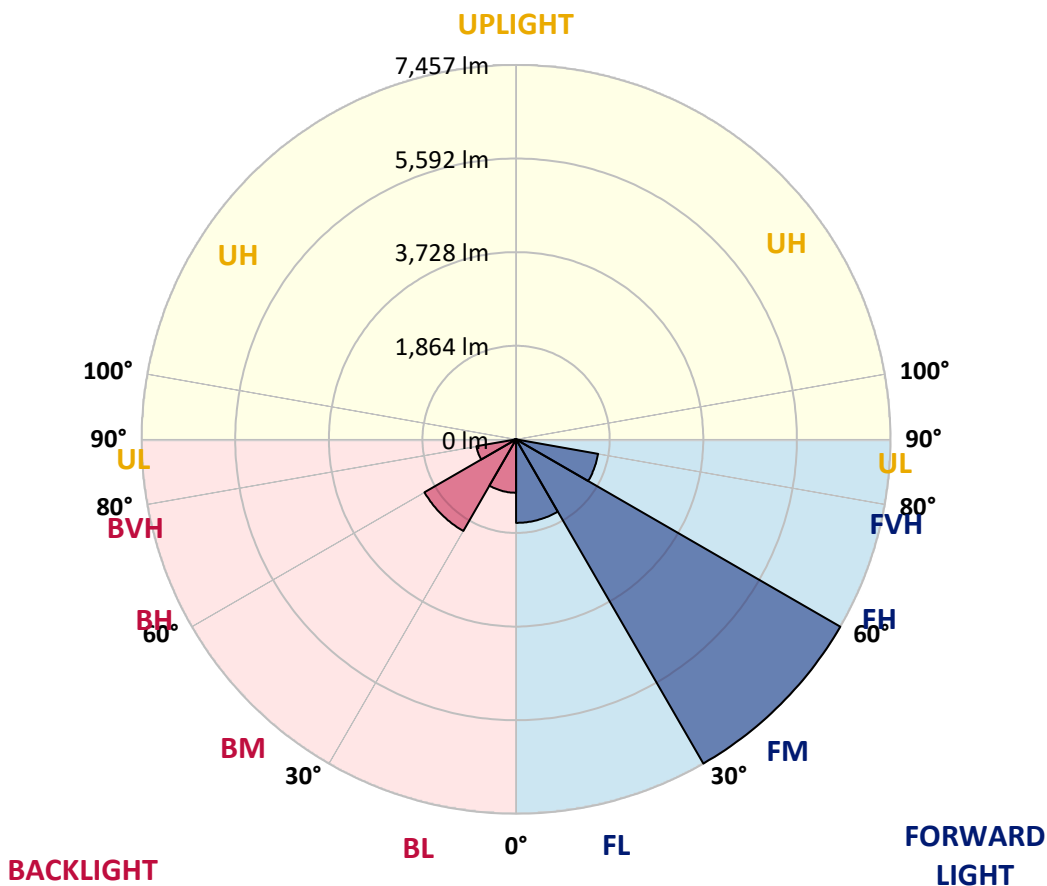
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.3	11.2			
FM (30°-60°)	7456.6	50.4			
FH (60°-80°)	1659.3	11.2			G1/1800
FVH (80°-90°)	19.6	0.1			G1/100
BL (0°-30°)	1063.9	7.2	B3/2500		
BM (30°-60°)	2106.1	14.2	B2/2500		
BH (60°-80°)	801.4	5.4	B2/1000		G2/1000
BVH (80°-90°)	33.3	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°	74°	75°	85°
0°	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3
2.5°	2978.5	2986.2	2978.5	2991.3	2965.8	2954.3	2926.3	2884.3	2851.2	2846.1	2809.2
5°	3210.2	3226.7	3216.6	3211.5	3177.1	3151.6	3109.6	3025.6	2956.9	2946.7	2874.2
7.5°	3359.1	3370.6	3370.6	3374.4	3361.7	3332.4	3287.8	3188.6	3091.8	3076.5	2967.1
10°	3408.8	3417.7	3434.2	3466.0	3491.5	3500.4	3471.1	3375.7	3257.3	3242.0	3089.3
12.5°	3420.2	3430.4	3455.9	3514.4	3584.4	3648.1	3653.2	3583.1	3450.8	3434.2	3230.6
15°	3441.9	3452.0	3486.4	3559.0	3662.1	3784.3	3859.4	3811.0	3664.6	3646.8	3390.9
17.5°	3439.3	3450.8	3501.7	3598.4	3737.2	3914.1	4059.2	4079.6	3928.1	3897.5	3573.0
20°	3432.9	3443.1	3497.9	3616.2	3788.1	4031.2	4293.4	4399.1	4236.1	4208.1	3785.5
22.5°	3483.9	3495.3	3537.3	3635.3	3814.8	4121.6	4509.8	4764.4	4601.4	4562.0	4029.9
25°	3598.4	3615.0	3640.4	3707.9	3863.2	4201.8	4731.3	5178.1	5011.3	4964.2	4296.0
27.5°	3775.3	3795.7	3831.4	3863.2	3971.4	4303.6	4951.5	5641.4	5474.6	5425.0	4577.3
30°	3991.7	4018.5	4064.3	4085.9	4159.8	4453.8	5190.8	6118.7	6022.0	5953.2	4894.2
32.5°	4290.9	4327.8	4371.1	4377.4	4422.0	4681.6	5427.5	6592.2	6590.9	6542.6	5254.4
35°	4680.4	4719.8	4728.7	4737.6	4759.3	4994.8	5713.9	7023.7	7190.5	7134.5	5646.5
37.5°	5105.5	5162.8	5176.8	5137.3	5167.9	5371.5	6036.0	7369.9	7712.3	7652.5	6025.8
40°	5559.9	5582.8	5621.0	5558.6	5596.8	5803.0	6351.6	7591.4	8101.8	8038.2	6324.9
42.5°	5885.8	5927.8	5985.1	5962.1	5983.8	6172.2	6573.1	7698.3	8379.3	8315.7	6540.0
45°	6239.6	6252.4	6289.3	6284.2	6296.9	6472.6	6732.2	7745.4	8627.5	8570.3	6723.3
47.5°	6547.7	6566.8	6590.9	6562.9	6534.9	6649.5	6862.1	7786.2	8913.9	8845.2	6915.5
50°	6844.2	6860.8	6890.1	6808.6	6704.2	6733.5	6925.7	7842.2	9182.5	9134.1	7067.0
52.5°	6899.0	6916.8	7054.3	7070.8	6937.2	6834.1	7037.7	7965.7	9340.4	9309.8	7121.7
55°	6210.4	6242.2	6515.8	6830.2	7159.9	7126.8	7217.2	8030.6	9402.7	9410.4	7219.7
57.5°	4820.4	4866.2	5265.9	5697.4	6391.1	6965.2	7240.1	8014.0	9381.1	9423.1	7320.3
60°	3161.8	3188.6	3662.1	4145.8	4864.9	5659.2	6480.2	7716.2	9188.9	9248.7	7294.8
62.5°	1909.3	1939.9	2320.5	2687.0	3110.9	3641.7	4395.2	6201.4	7702.2	7835.8	5842.5
65°	1332.7	1373.4	1706.9	2008.6	2155.0	2045.5	2226.3	3463.5	4798.7	4854.7	3570.4
67.5°	966.1	994.1	1267.8	1626.7	1788.4	1444.7	1101.0	1533.8	2090.1	2110.4	1472.7
70°	632.6	664.4	912.7	1238.5	1460.0	1171.0	823.6	829.9	879.6	889.7	855.4
72.5°	347.5	366.6	563.9	822.3	863.0	700.1	642.8	689.9	724.3	724.3	733.2
75°	179.5	196.0	230.4	271.1	327.1	383.1	463.3	533.3	570.2	572.8	569.0
77.5°	91.6	98.0	123.5	133.7	146.4	170.6	221.5	283.9	316.9	329.7	327.1
80°	43.3	45.8	52.2	61.1	75.1	95.5	119.7	142.6	162.9	165.5	179.5
82.5°	22.9	25.5	28.0	33.1	40.7	50.9	70.0	84.0	96.7	99.3	110.7
85°	8.9	10.2	11.5	12.7	17.8	21.6	29.3	39.5	48.4	48.4	57.3
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	5.1	6.4	8.9	8.9	15.3
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°	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3	2772.3
2.5°	2800.3	2763.4	2746.9	2720.1	2698.5	2674.3	2655.2	2641.2	2632.3	2627.2	2622.1
5°	2846.1	2790.1	2745.6	2692.1	2655.2	2619.6	2590.3	2569.9	2559.8	2552.1	2547.0
7.5°	2917.4	2842.3	2758.3	2675.6	2610.7	2553.4	2516.5	2494.8	2480.8	2475.7	2471.9
10°	3015.4	2911.1	2772.3	2641.2	2544.5	2482.1	2456.6	2446.5	2447.7	2445.2	2443.9
12.5°	3126.2	2983.6	2768.5	2580.1	2473.2	2436.3	2437.6	2454.1	2473.2	2478.3	2479.6
15°	3245.8	3054.9	2731.6	2501.2	2417.2	2421.0	2454.1	2493.6	2529.2	2543.2	2545.7
17.5°	3375.7	3114.7	2664.1	2414.6	2371.4	2412.1	2473.2	2538.1	2590.3	2613.2	2619.6
20°	3520.8	3165.6	2568.7	2329.4	2328.1	2395.6	2484.7	2569.9	2636.1	2666.7	2671.8
22.5°	3674.8	3197.5	2451.6	2250.4	2283.5	2373.9	2475.7	2564.8	2634.9	2665.4	2671.8
25°	3830.1	3207.6	2323.0	2177.9	2237.7	2339.5	2432.5	2503.7	2569.9	2596.7	2601.8
27.5°	3975.2	3178.4	2200.8	2115.5	2195.7	2288.6	2351.0	2389.2	2435.0	2455.4	2459.2
30°	4122.8	3119.8	2097.7	2065.9	2148.6	2218.6	2246.6	2249.2	2267.0	2267.0	2269.5
32.5°	4271.8	3033.3	2007.3	2017.5	2090.1	2135.9	2139.7	2110.4	2088.8	2053.1	2051.9
35°	4443.6	2945.4	1933.5	1962.8	2021.3	2049.3	2037.9	1981.9	1929.7	1871.1	1868.6
37.5°	4602.7	2855.1	1871.1	1906.8	1943.7	1964.0	1937.3	1869.9	1826.6	1766.8	1757.8
40°	4733.8	2773.6	1811.3	1848.2	1866.0	1883.9	1840.6	1785.8	1792.2	1759.1	1757.8
42.5°	4810.2	2694.7	1755.3	1783.3	1794.8	1807.5	1769.3	1728.6	1762.9	1737.5	1738.7
45°	4866.2	2625.9	1704.4	1714.6	1742.6	1761.7	1726.0	1680.2	1687.8	1589.8	1566.9
47.5°	4929.8	2587.8	1656.0	1645.8	1695.5	1728.6	1673.8	1607.6	1561.8	1465.1	1456.2
50°	4997.3	2573.8	1605.1	1577.1	1636.9	1668.7	1605.1	1522.4	1462.5	1410.3	1405.3
52.5°	5020.2	2572.5	1541.5	1494.4	1554.2	1598.7	1545.3	1461.3	1390.0	1339.1	1336.5
55°	5110.6	2609.4	1460.0	1381.1	1437.1	1528.7	1489.3	1368.3	1311.1	1288.1	1285.6
57.5°	5216.2	2615.8	1331.4	1257.6	1335.2	1443.4	1393.8	1289.4	1227.1	1199.0	1196.5
60°	5173.0	2459.2	1194.0	1163.4	1248.7	1363.2	1317.4	1227.1	1154.5	1127.8	1125.2
62.5°	3942.1	1736.2	1093.4	1081.9	1155.8	1247.4	1238.5	1144.3	1075.6	1056.5	1053.9
65°	2371.4	1219.4	996.7	995.4	1047.6	1135.4	1146.9	1070.5	997.9	971.2	971.2
67.5°	1172.3	933.0	887.2	880.8	913.9	976.3	1024.7	962.3	901.2	875.7	871.9
70°	828.6	822.3	807.0	789.2	795.5	821.0	841.4	789.2	724.3	698.8	693.7
72.5°	716.6	717.9	707.7	693.7	688.6	670.8	653.0	614.8	575.3	548.6	551.2
75°	556.2	558.8	565.2	560.1	546.1	527.0	507.9	459.5	427.7	402.2	397.1
77.5°	324.6	337.3	357.7	352.6	355.1	328.4	320.8	273.7	244.4	226.6	222.8
80°	183.3	190.9	199.8	206.2	198.6	187.1	170.6	145.1	136.2	123.5	120.9
82.5°	110.7	118.4	122.2	127.3	124.7	109.5	96.7	80.2	72.6	66.2	64.9
85°	56.0	61.1	64.9	67.5	59.8	49.6	44.6	35.6	30.5	26.7	26.7
87.5°	14.0	15.3	17.8	15.3	14.0	6.4	5.1	1.3	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)