

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: P639314

Luminaire Tested: GWS-SA5B-750-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639314
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15142.6 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

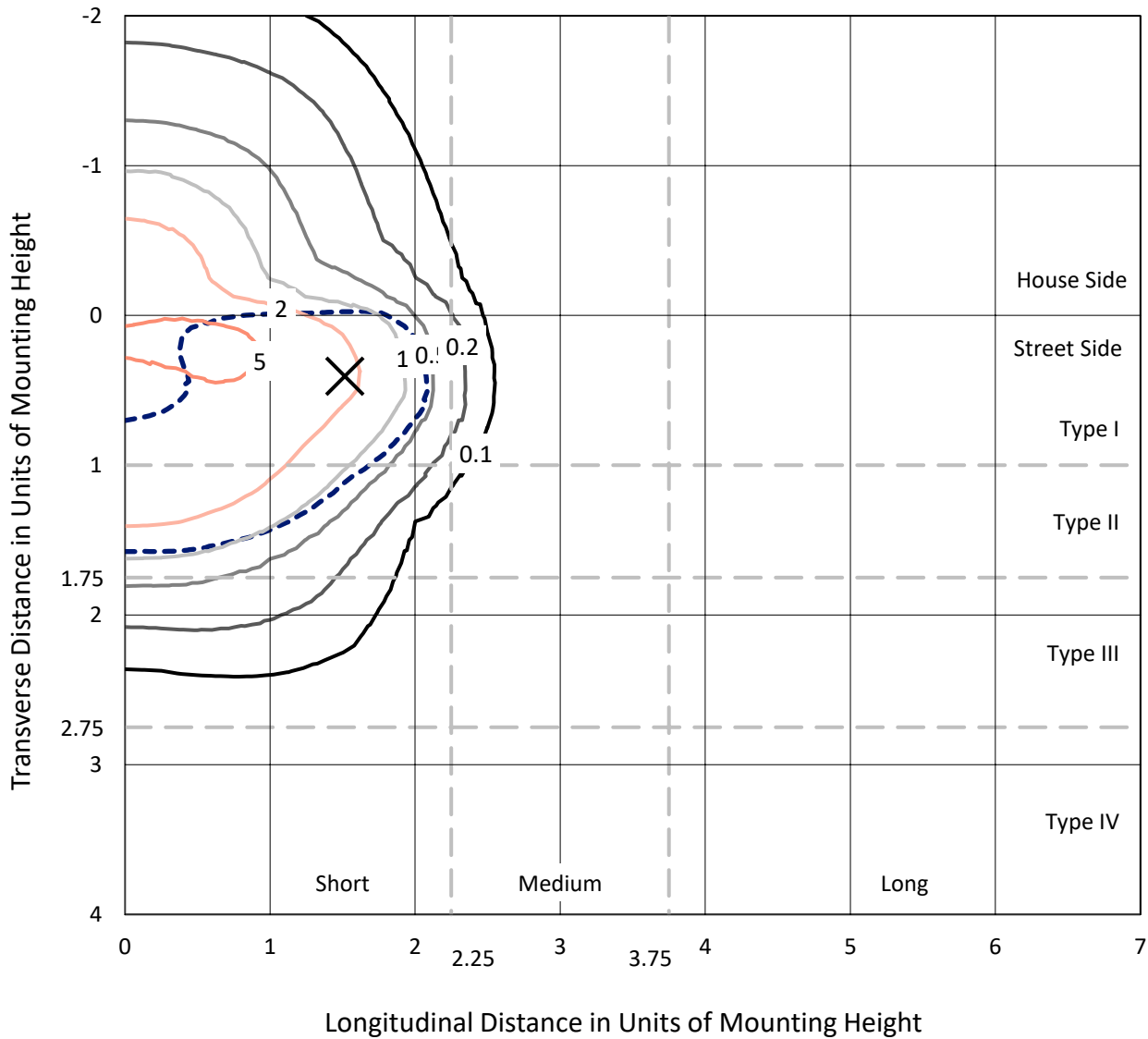
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

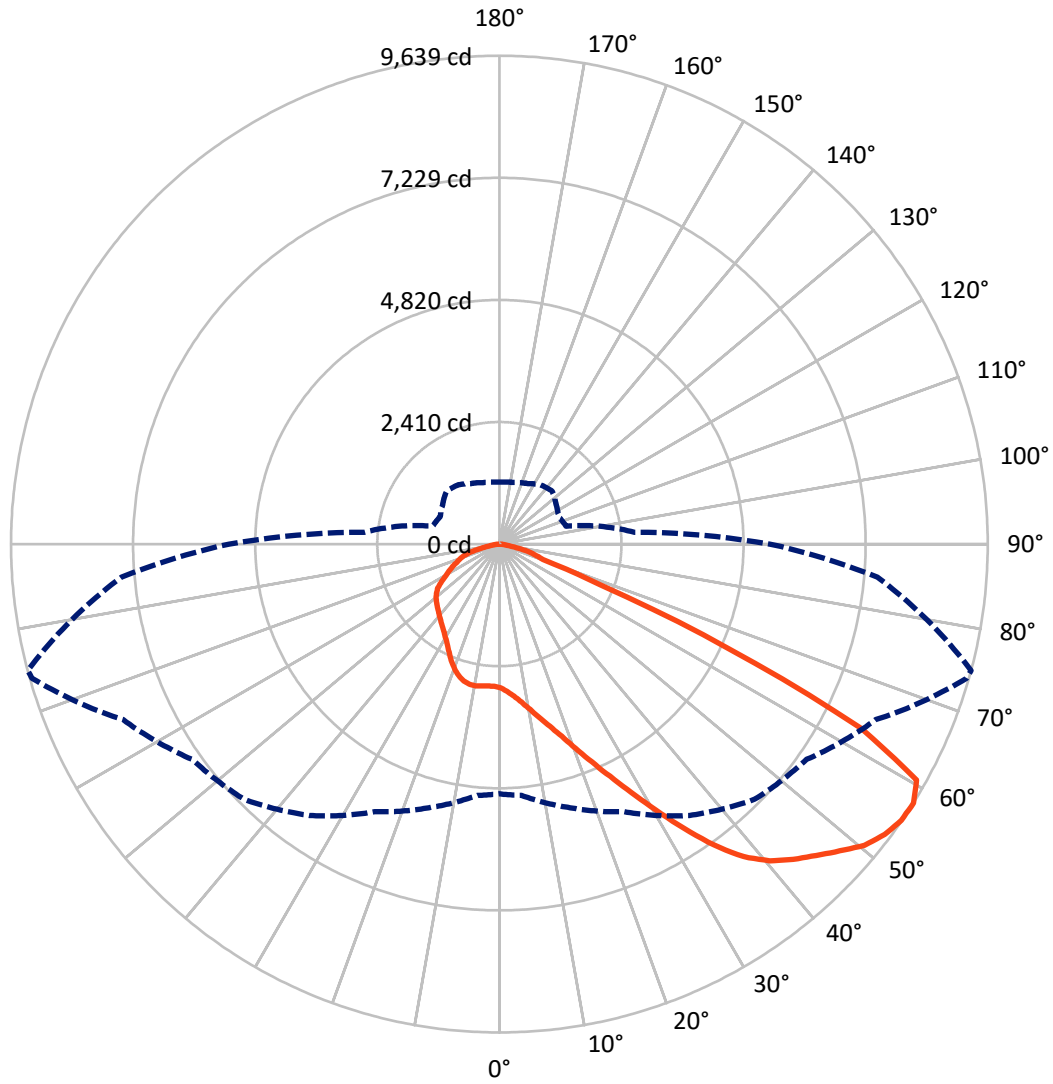
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	4096.4	0.0	4096.4
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	11046.2	0.0	11046.2
	% Fixture	72.9	0.0	72.9
Total	Lumens	15142.6	0.0	15142.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.8	1.9
10°-20°	903.5	6.0
20°-30°	1602.3	10.6
30°-40°	2452.9	16.2
40°-50°	3415.5	22.6
50°-60°	3913.5	25.8
60°-70°	2010.8	13.3
70°-80°	506.2	3.3
80°-90°	54.1	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°	15142.6	100.0
0°-180°	15142.6	100.0

Coefficient of Utilization



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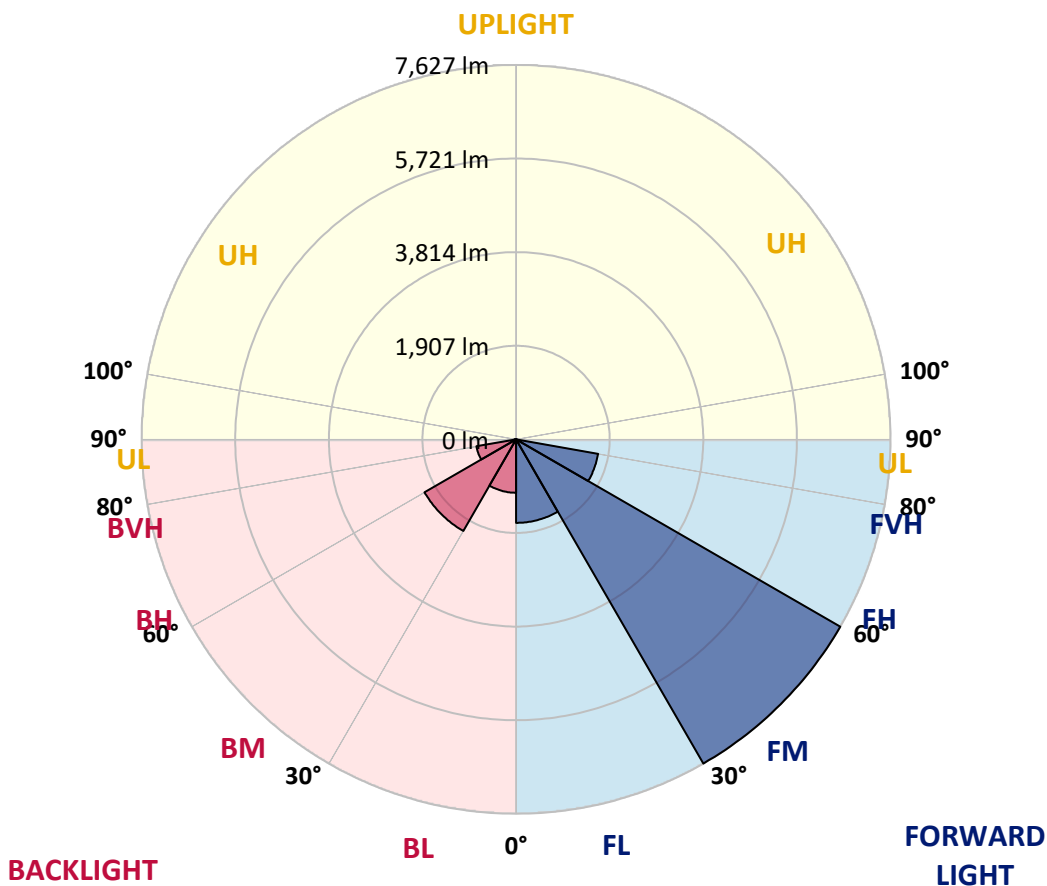
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1701.4	11.2			
FM (30°-60°)	7627.5	50.4			
FH (60°-80°)	1697.3	11.2			G1/1800
FVH (80°-90°)	20.0	0.1			G1/100
BL (0°-30°)	1088.3	7.2	B3/2500		
BM (30°-60°)	2154.3	14.2	B2/2500		
BH (60°-80°)	819.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	34.1	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°	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8
2.5°	3046.8	3054.6	3046.8	3059.8	3033.8	3022.0	2993.4	2950.4	2916.6	2911.4	2873.6
5°	3283.7	3300.7	3290.3	3285.0	3249.9	3223.9	3180.9	3095.0	3024.6	3014.2	2940.0
7.5°	3436.1	3447.8	3447.8	3451.7	3438.7	3408.7	3363.2	3261.6	3162.7	3147.0	3035.1
10°	3486.9	3496.0	3512.9	3545.5	3571.5	3580.6	3550.7	3453.0	3331.9	3316.3	3160.1
12.5°	3498.6	3509.0	3535.0	3594.9	3666.5	3731.6	3736.9	3665.2	3529.8	3512.9	3304.6
15°	3520.7	3531.1	3566.3	3640.5	3746.0	3871.0	3947.8	3898.3	3748.6	3730.3	3468.6
17.5°	3518.1	3529.8	3581.9	3680.9	3822.8	4003.8	4152.2	4173.0	4018.1	3986.8	3654.8
20°	3511.6	3522.0	3578.0	3699.1	3874.9	4123.6	4391.8	4499.9	4333.2	4304.5	3872.3
22.5°	3563.7	3575.4	3618.4	3718.6	3902.2	4216.0	4613.1	4873.5	4706.9	4666.5	4122.3
25°	3680.9	3697.8	3723.8	3792.8	3951.7	4298.0	4839.7	5296.7	5126.1	5078.0	4394.4
27.5°	3861.9	3882.7	3919.1	3951.7	4062.4	4402.2	5064.9	5770.6	5600.1	5549.3	4682.1
30°	4083.2	4110.5	4157.4	4179.6	4255.1	4555.8	5309.7	6258.9	6160.0	6089.6	5006.3
32.5°	4389.2	4426.9	4471.2	4477.7	4523.3	4788.9	5551.9	6743.3	6742.0	6692.5	5374.8
35°	4787.6	4828.0	4837.1	4846.2	4868.3	5109.2	5844.9	7184.7	7355.2	7297.9	5775.9
37.5°	5222.5	5281.1	5295.4	5255.0	5286.3	5494.6	6174.3	7538.8	7889.1	7827.9	6163.9
40°	5687.3	5710.8	5749.8	5686.0	5725.1	5936.0	6497.2	7765.4	8287.5	8222.4	6469.8
42.5°	6020.6	6063.6	6122.2	6098.8	6120.9	6313.6	6723.7	7874.7	8571.3	8506.2	6689.9
45°	6382.6	6395.6	6433.4	6428.2	6441.2	6620.9	6886.5	7922.9	8825.2	8766.6	6877.4
47.5°	6697.7	6717.2	6742.0	6713.3	6684.7	6801.9	7019.3	7964.6	9118.2	9047.9	7074.0
50°	7001.1	7018.0	7047.9	6964.6	6857.9	6887.8	7084.4	8021.9	9392.9	9343.4	7228.9
52.5°	7057.1	7075.3	7215.9	7232.8	7096.1	6990.7	7199.0	8148.2	9554.4	9523.1	7284.9
55°	6352.7	6385.2	6665.1	6986.8	7324.0	7290.1	7382.6	8214.6	9618.2	9626.0	7385.2
57.5°	4930.8	4977.7	5386.5	5827.9	6537.5	7124.8	7406.0	8197.7	9596.0	9639.0	7488.0
60°	3234.3	3261.6	3746.0	4240.7	4976.4	5788.9	6628.7	7893.0	9399.4	9460.6	7462.0
62.5°	1953.1	1984.3	2373.6	2748.6	3182.2	3725.1	4495.9	6343.5	7878.7	8015.4	5976.4
65°	1363.2	1404.9	1746.0	2054.6	2204.4	2092.4	2277.3	3542.9	4908.7	4966.0	3652.2
67.5°	988.2	1016.9	1296.8	1664.0	1829.4	1477.8	1126.3	1569.0	2138.0	2158.8	1506.5
70°	647.1	679.7	933.6	1266.9	1493.4	1197.9	842.4	848.9	899.7	910.1	875.0
72.5°	355.5	375.0	576.8	841.1	882.8	716.1	657.5	705.7	740.9	740.9	750.0
75°	183.6	200.5	235.7	277.3	334.6	391.9	473.9	545.6	583.3	585.9	582.0
77.5°	93.7	100.3	126.3	136.7	149.7	174.5	226.6	290.4	324.2	337.2	334.6
80°	44.3	46.9	53.4	62.5	76.8	97.7	122.4	145.8	166.7	169.3	183.6
82.5°	23.4	26.0	28.6	33.9	41.7	52.1	71.6	85.9	99.0	101.6	113.3
85°	9.1	10.4	11.7	13.0	18.2	22.1	29.9	40.4	49.5	49.5	58.6
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	5.2	6.5	9.1	9.1	15.6
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°	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8	2835.8
2.5°	2864.5	2826.7	2809.8	2782.5	2760.3	2735.6	2716.1	2701.7	2692.6	2687.4	2682.2
5°	2911.4	2854.1	2808.5	2753.8	2716.1	2679.6	2649.7	2628.8	2618.4	2610.6	2605.4
7.5°	2984.3	2907.5	2821.5	2736.9	2670.5	2611.9	2574.1	2552.0	2537.7	2532.5	2528.6
10°	3084.5	2977.8	2835.8	2701.7	2602.8	2539.0	2512.9	2502.5	2503.8	2501.2	2499.9
12.5°	3197.8	3052.0	2831.9	2639.2	2529.9	2492.1	2493.4	2510.3	2529.9	2535.1	2536.4
15°	3320.2	3124.9	2794.2	2558.5	2472.6	2476.5	2510.3	2550.7	2587.2	2601.5	2604.1
17.5°	3453.0	3186.1	2725.2	2470.0	2425.7	2467.4	2529.9	2596.3	2649.7	2673.1	2679.6
20°	3601.4	3238.2	2627.5	2382.7	2381.4	2450.4	2541.6	2628.8	2696.5	2727.8	2733.0
22.5°	3759.0	3270.7	2507.7	2302.0	2335.9	2428.3	2532.5	2623.6	2695.2	2726.5	2733.0
25°	3917.8	3281.1	2376.2	2227.8	2289.0	2393.2	2488.2	2561.1	2628.8	2656.2	2661.4
27.5°	4066.3	3251.2	2251.2	2164.0	2246.0	2341.1	2404.9	2443.9	2490.8	2511.6	2515.5
30°	4217.3	3191.3	2145.8	2113.2	2197.8	2269.5	2298.1	2300.7	2318.9	2318.9	2321.5
32.5°	4369.6	3102.8	2053.3	2063.7	2138.0	2184.8	2188.7	2158.8	2136.6	2100.2	2098.9
35°	4545.4	3012.9	1977.8	2007.7	2067.6	2096.3	2084.6	2027.3	1973.9	1914.0	1911.4
37.5°	4708.2	2920.5	1914.0	1950.5	1988.2	2009.0	1981.7	1912.7	1868.4	1807.2	1798.1
40°	4842.3	2837.1	1852.8	1890.6	1908.8	1927.0	1882.8	1826.8	1833.3	1799.4	1798.1
42.5°	4920.4	2756.4	1795.5	1824.2	1835.9	1848.9	1809.8	1768.2	1803.3	1777.3	1778.6
45°	4977.7	2686.1	1743.4	1753.8	1782.5	1802.0	1765.6	1718.7	1726.5	1626.2	1602.8
47.5°	5042.8	2647.0	1694.0	1683.5	1734.3	1768.2	1712.2	1644.5	1597.6	1498.6	1489.5
50°	5111.8	2632.7	1641.9	1613.2	1674.4	1707.0	1641.9	1557.2	1496.0	1442.7	1437.5
52.5°	5135.2	2631.4	1576.8	1528.6	1589.8	1635.4	1580.7	1494.7	1421.8	1369.7	1367.1
55°	5227.7	2669.2	1493.4	1412.7	1470.0	1563.8	1523.4	1399.7	1341.1	1317.7	1315.1
57.5°	5335.8	2675.7	1361.9	1286.4	1365.8	1476.5	1425.7	1319.0	1255.2	1226.5	1223.9
60°	5291.5	2515.5	1221.3	1190.1	1277.3	1394.5	1347.6	1255.2	1181.0	1153.6	1151.0
62.5°	4032.4	1776.0	1118.5	1106.7	1182.3	1276.0	1266.9	1170.5	1100.2	1080.7	1078.1
65°	2425.7	1247.4	1019.5	1018.2	1071.6	1161.4	1173.1	1095.0	1020.8	993.5	993.5
67.5°	1199.2	954.4	907.5	901.0	934.9	998.7	1048.1	984.3	921.8	895.8	891.9
70°	847.6	841.1	825.5	807.3	813.8	839.8	860.6	807.3	740.9	714.8	709.6
72.5°	733.0	734.4	723.9	709.6	704.4	686.2	667.9	628.9	588.5	561.2	563.8
75°	569.0	571.6	578.1	572.9	558.6	539.0	519.5	470.0	437.5	411.4	406.2
77.5°	332.0	345.0	365.9	360.7	363.3	335.9	328.1	279.9	250.0	231.8	227.9
80°	187.5	195.3	204.4	210.9	203.1	191.4	174.5	148.4	139.3	126.3	123.7
82.5°	113.3	121.1	125.0	130.2	127.6	112.0	99.0	82.0	74.2	67.7	66.4
85°	57.3	62.5	66.4	69.0	61.2	50.8	45.6	36.5	31.2	27.3	27.3
87.5°	14.3	15.6	18.2	15.6	14.3	6.5	5.2	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)