

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: P639534

Luminaire Tested: GWS-SA5C-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639534
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-SA5C-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14623.6 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

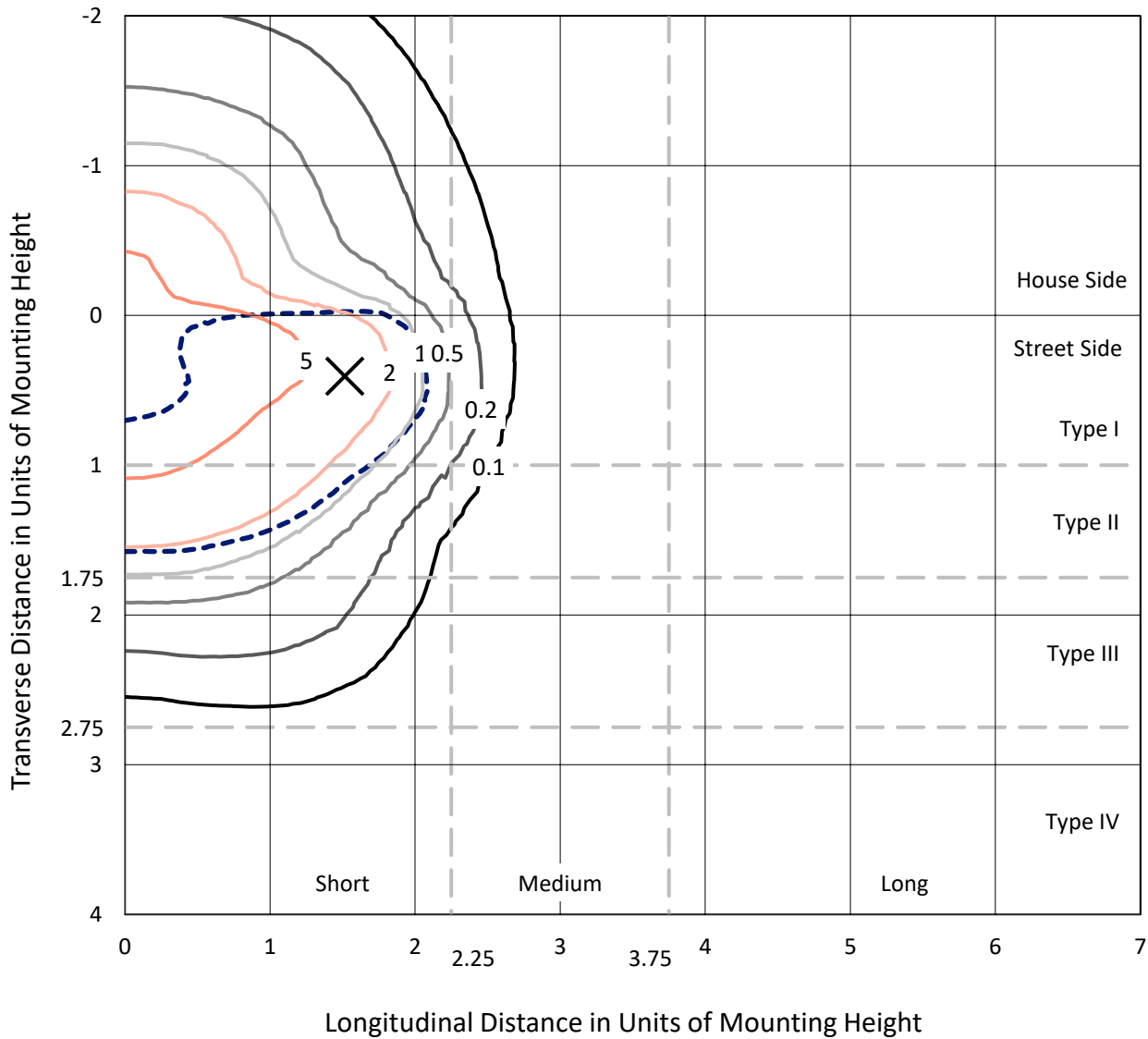
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

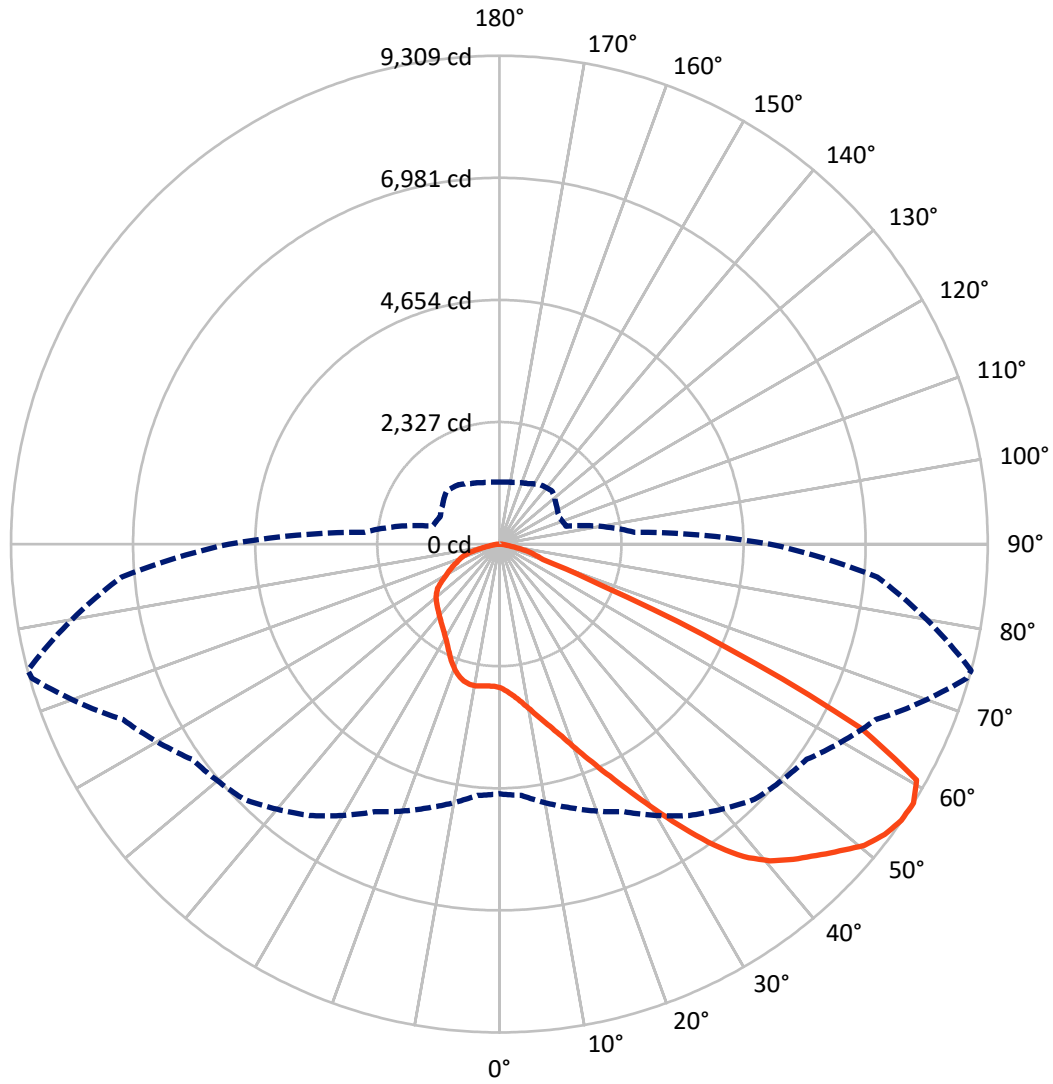
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 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	3956.0	0.0	3956.0
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	10667.6	0.0	10667.6
	% Fixture	72.9	0.0	72.9
Total	Lumens	14623.6	0.0	14623.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.1	1.9
10°-20°	872.5	6.0
20°-30°	1547.4	10.6
30°-40°	2368.8	16.2
40°-50°	3298.4	22.6
50°-60°	3779.3	25.8
60°-70°	1941.9	13.3
70°-80°	488.9	3.3
80°-90°	52.3	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°	14623.6	100.0
0°-180°	14623.6	100.0

Coefficient of Utilization



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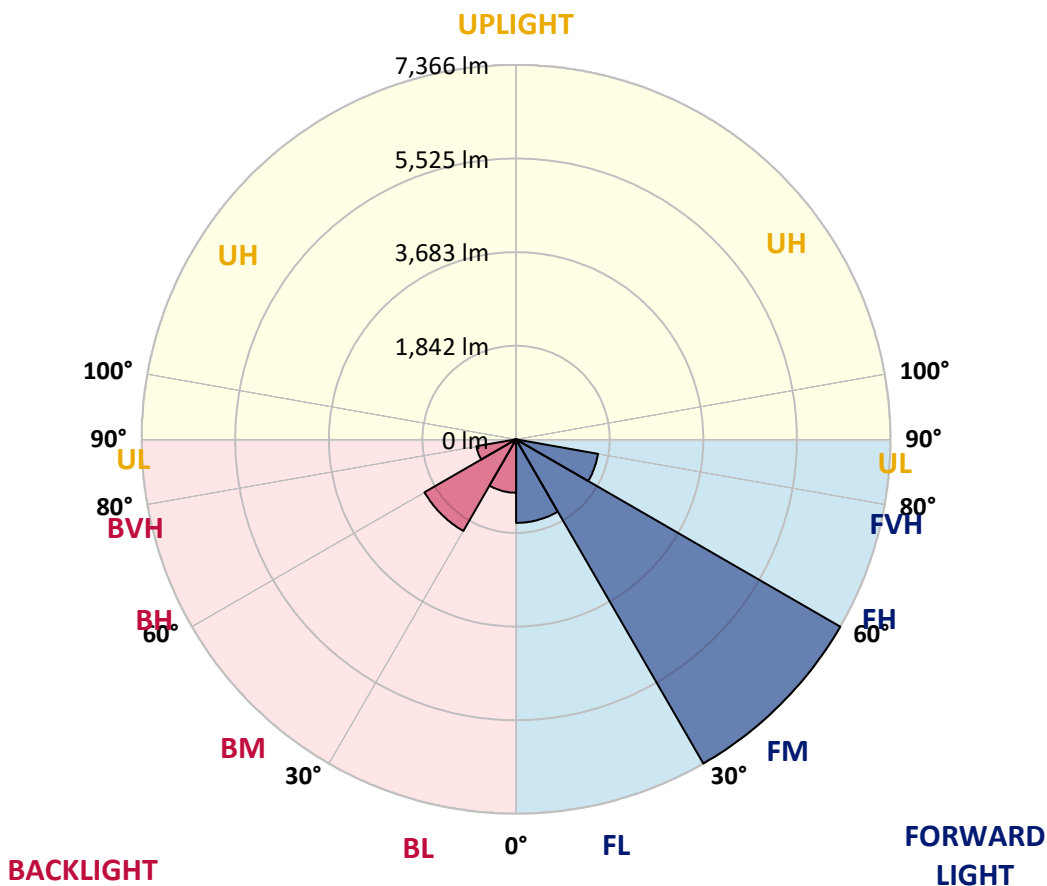
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1643.1	11.2			
FM (30°-60°)	7366.1	50.4			
FH (60°-80°)	1639.2	11.2			G1/1800
FVH (80°-90°)	19.3	0.1			G1/100
BL (0°-30°)	1051.0	7.2	B3/2500		
BM (30°-60°)	2080.5	14.2	B2/2500		
BH (60°-80°)	791.6	5.4	B2/1000		G2/1000
BVH (80°-90°)	32.9	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°	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6
2.5°	2942.4	2949.9	2942.4	2954.9	2929.8	2918.5	2890.8	2849.3	2816.6	2811.6	2775.1
5°	3171.2	3187.5	3177.5	3172.5	3138.5	3113.4	3071.9	2988.9	2921.0	2910.9	2839.2
7.5°	3318.3	3329.6	3329.6	3333.4	3320.8	3291.9	3247.9	3149.8	3054.3	3039.2	2931.0
10°	3367.4	3376.2	3392.5	3423.9	3449.1	3457.9	3429.0	3334.7	3217.7	3202.6	3051.7
12.5°	3378.7	3388.7	3413.9	3471.7	3540.9	3603.8	3608.8	3539.6	3408.9	3392.5	3191.3
15°	3400.0	3410.1	3444.1	3515.7	3617.6	3738.3	3812.5	3764.7	3620.1	3602.5	3349.8
17.5°	3397.5	3408.9	3459.1	3554.7	3691.8	3866.6	4009.9	4030.0	3880.4	3850.2	3529.6
20°	3391.2	3401.3	3455.4	3572.3	3742.1	3982.2	4241.3	4345.6	4184.7	4157.0	3739.6
22.5°	3441.5	3452.9	3494.4	3591.2	3768.5	4071.5	4455.0	4706.5	4545.6	4506.6	3981.0
25°	3554.7	3571.1	3596.2	3662.8	3816.3	4150.7	4673.8	5115.2	4950.4	4903.9	4243.8
27.5°	3729.5	3749.6	3784.8	3816.3	3923.1	4251.3	4891.3	5572.9	5408.1	5359.1	4521.7
30°	3943.3	3969.7	4014.9	4036.3	4109.2	4399.7	5127.7	6044.4	5948.8	5880.9	4834.8
32.5°	4238.7	4275.2	4318.0	4324.2	4368.3	4624.8	5361.6	6512.2	6510.9	6463.1	5190.6
35°	4623.5	4662.5	4671.3	4680.1	4701.5	4934.1	5644.5	6938.4	7103.1	7047.8	5577.9
37.5°	5043.5	5100.1	5113.9	5074.9	5105.1	5306.3	5962.7	7280.4	7618.7	7559.6	5952.6
40°	5492.4	5515.0	5552.7	5491.1	5528.9	5732.6	6274.5	7499.2	8003.4	7940.6	6248.1
42.5°	5814.3	5855.8	5912.4	5889.7	5911.1	6097.2	6493.3	7604.8	8277.6	8214.7	6460.6
45°	6163.8	6176.4	6212.9	6207.9	6220.4	6394.0	6650.5	7651.4	8522.8	8466.2	6641.7
47.5°	6468.1	6487.0	6510.9	6483.2	6455.6	6568.7	6778.7	7691.6	8805.7	8737.8	6831.5
50°	6761.1	6777.5	6806.4	6725.9	6622.8	6651.7	6841.6	7746.9	9071.0	9023.2	6981.2
52.5°	6815.2	6832.8	6968.6	6984.9	6852.9	6751.1	6952.2	7868.9	9226.9	9196.7	7035.2
55°	6134.9	6166.4	6436.7	6747.3	7073.0	7040.3	7129.5	7933.0	9288.5	9296.1	7132.1
57.5°	4761.8	4807.1	5201.9	5628.2	6313.5	6880.6	7152.2	7916.7	9267.1	9308.6	7231.4
60°	3123.4	3149.8	3617.6	4095.4	4805.8	5590.5	6401.5	7622.4	9077.3	9136.4	7206.2
62.5°	1886.1	1916.3	2292.3	2654.4	3073.1	3597.5	4341.9	6126.1	7608.6	7740.6	5771.5
65°	1316.5	1356.8	1686.2	1984.2	2128.8	2020.7	2199.2	3421.4	4740.5	4795.8	3527.0
67.5°	954.4	982.0	1252.4	1607.0	1766.7	1427.2	1087.7	1515.2	2064.7	2084.8	1454.8
70°	624.9	656.4	901.6	1223.5	1442.3	1156.8	813.5	819.8	868.9	878.9	845.0
72.5°	343.3	362.1	557.0	812.3	852.5	691.6	635.0	681.5	715.5	715.5	724.3
75°	177.3	193.6	227.6	267.8	323.2	378.5	457.7	526.9	563.3	565.8	562.1
77.5°	90.5	96.8	122.0	132.0	144.6	168.5	218.8	280.4	313.1	325.7	323.2
80°	42.8	45.3	51.6	60.4	74.2	94.3	118.2	140.8	160.9	163.5	177.3
82.5°	22.6	25.1	27.7	32.7	40.2	50.3	69.2	83.0	95.6	98.1	109.4
85°	8.8	10.1	11.3	12.6	17.6	21.4	28.9	39.0	47.8	47.8	56.6
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	5.0	6.3	8.8	8.8	15.1
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°	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6	2738.6
2.5°	2766.3	2729.8	2713.5	2687.1	2665.7	2641.8	2623.0	2609.1	2600.3	2595.3	2590.3
5°	2811.6	2756.3	2712.2	2659.4	2623.0	2587.8	2558.8	2538.7	2528.7	2521.1	2516.1
7.5°	2882.0	2807.8	2724.8	2643.1	2579.0	2522.4	2485.9	2464.5	2450.7	2445.7	2441.9
10°	2978.8	2875.7	2738.6	2609.1	2513.6	2452.0	2426.8	2416.8	2418.0	2415.5	2414.2
12.5°	3088.2	2947.4	2734.9	2548.8	2443.2	2406.7	2407.9	2424.3	2443.2	2448.2	2449.4
15°	3206.4	3017.8	2698.4	2470.8	2387.8	2391.6	2424.3	2463.3	2498.5	2512.3	2514.8
17.5°	3334.7	3076.9	2631.8	2385.3	2342.6	2382.8	2443.2	2507.3	2558.8	2581.5	2587.8
20°	3478.0	3127.2	2537.5	2301.1	2299.8	2366.5	2454.5	2538.7	2604.1	2634.3	2639.3
22.5°	3630.2	3158.6	2421.8	2223.1	2255.8	2345.1	2445.7	2533.7	2602.8	2633.0	2639.3
25°	3783.6	3168.7	2294.8	2151.4	2210.5	2311.1	2402.9	2473.3	2538.7	2565.1	2570.2
27.5°	3926.9	3139.8	2174.1	2089.8	2169.0	2260.8	2322.4	2360.2	2405.4	2425.6	2429.3
30°	4072.8	3081.9	2072.2	2040.8	2122.5	2191.7	2219.3	2221.9	2239.5	2239.5	2242.0
32.5°	4219.9	2996.4	1982.9	1993.0	2064.7	2109.9	2113.7	2084.8	2063.4	2028.2	2027.0
35°	4389.6	2909.7	1910.0	1938.9	1996.8	2024.4	2013.1	1957.8	1906.2	1848.4	1845.9
37.5°	4546.8	2820.4	1848.4	1883.6	1920.1	1940.2	1913.8	1847.1	1804.4	1745.3	1736.5
40°	4676.3	2739.9	1789.3	1825.8	1843.4	1861.0	1818.2	1764.2	1770.4	1737.7	1736.5
42.5°	4751.8	2661.9	1734.0	1761.6	1773.0	1785.5	1747.8	1707.6	1741.5	1716.4	1717.6
45°	4807.1	2594.0	1683.7	1693.7	1721.4	1740.3	1705.1	1659.8	1667.3	1570.5	1547.9
47.5°	4870.0	2556.3	1635.9	1625.8	1674.9	1707.6	1653.5	1588.1	1542.8	1447.3	1438.5
50°	4936.6	2542.5	1585.6	1557.9	1617.0	1648.5	1585.6	1503.9	1444.8	1393.2	1388.2
52.5°	4959.2	2541.2	1522.7	1476.2	1535.3	1579.3	1526.5	1443.5	1373.1	1322.8	1320.3
55°	5048.5	2577.7	1442.3	1364.3	1419.6	1510.2	1471.2	1351.7	1295.1	1272.5	1270.0
57.5°	5152.9	2584.0	1315.3	1242.3	1319.0	1425.9	1376.9	1273.8	1212.1	1184.5	1182.0
60°	5110.1	2429.3	1179.5	1149.3	1233.5	1346.7	1301.4	1212.1	1140.5	1114.1	1111.6
62.5°	3894.2	1715.1	1080.1	1068.8	1141.7	1232.3	1223.5	1130.4	1062.5	1043.7	1041.1
65°	2342.6	1204.6	984.6	983.3	1034.9	1121.6	1132.9	1057.5	985.8	959.4	959.4
67.5°	1158.1	921.7	876.4	870.1	902.8	964.4	1012.2	950.6	890.2	865.1	861.3
70°	818.6	812.3	797.2	779.6	785.9	811.0	831.2	779.6	715.5	690.3	685.3
72.5°	707.9	709.2	699.1	685.3	680.3	662.7	645.1	607.3	568.4	541.9	544.5
75°	549.5	552.0	558.3	553.3	539.4	520.6	501.7	453.9	422.5	397.3	392.3
77.5°	320.6	333.2	353.3	348.3	350.8	324.4	316.9	270.3	241.4	223.8	220.0
80°	181.1	188.6	197.4	203.7	196.2	184.8	168.5	143.3	134.5	122.0	119.5
82.5°	109.4	116.9	120.7	125.7	123.2	108.1	95.6	79.2	71.7	65.4	64.1
85°	55.3	60.4	64.1	66.6	59.1	49.0	44.0	35.2	30.2	26.4	26.4
87.5°	13.8	15.1	17.6	15.1	13.8	6.3	5.0	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)