

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: P637279

Luminaire Tested: GWS-SA4C-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637279
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-SA4C-740-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16183.9 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

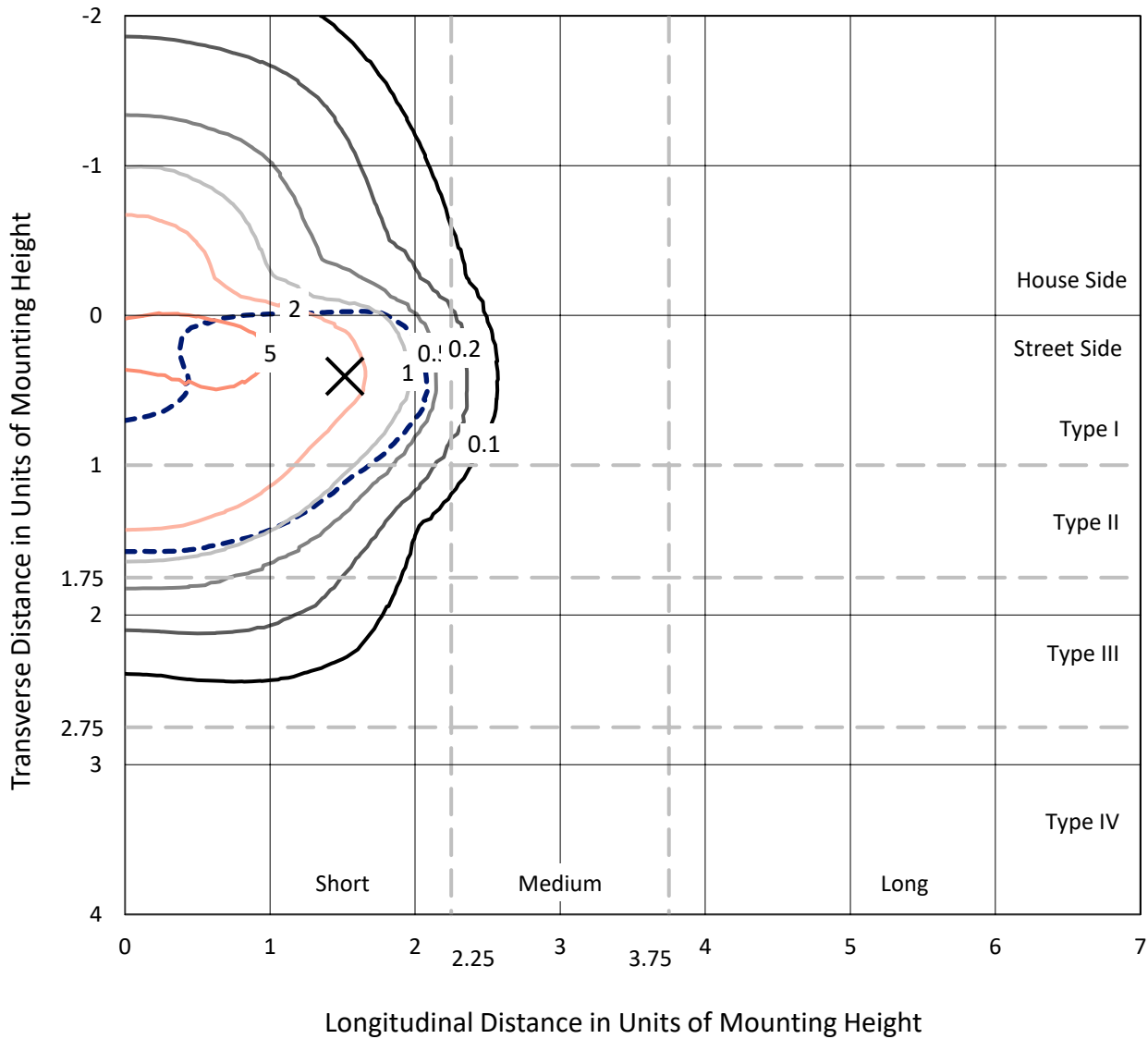
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

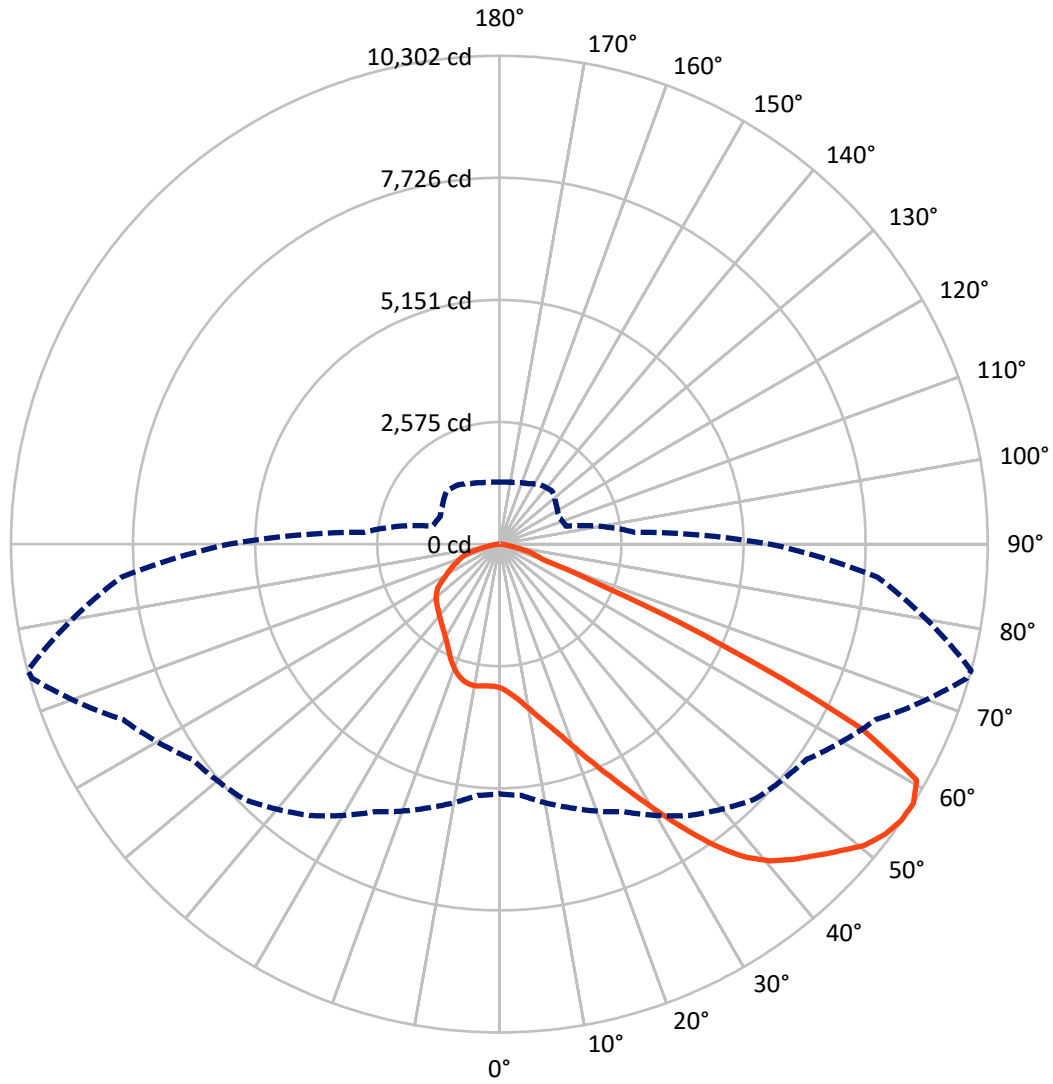
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	4378.1	0.0	4378.1
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	11805.8	0.0	11805.8
	% Fixture	72.9	0.0	72.9
Total	Lumens	16183.9	0.0	16183.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.3	1.9
10°-20°	965.6	6.0
20°-30°	1712.5	10.6
30°-40°	2621.6	16.2
40°-50°	3650.3	22.6
50°-60°	4182.6	25.8
60°-70°	2149.1	13.3
70°-80°	541.1	3.3
80°-90°	57.8	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°	16183.9	100.0
0°-180°	16183.9	100.0

Coefficient of Utilization



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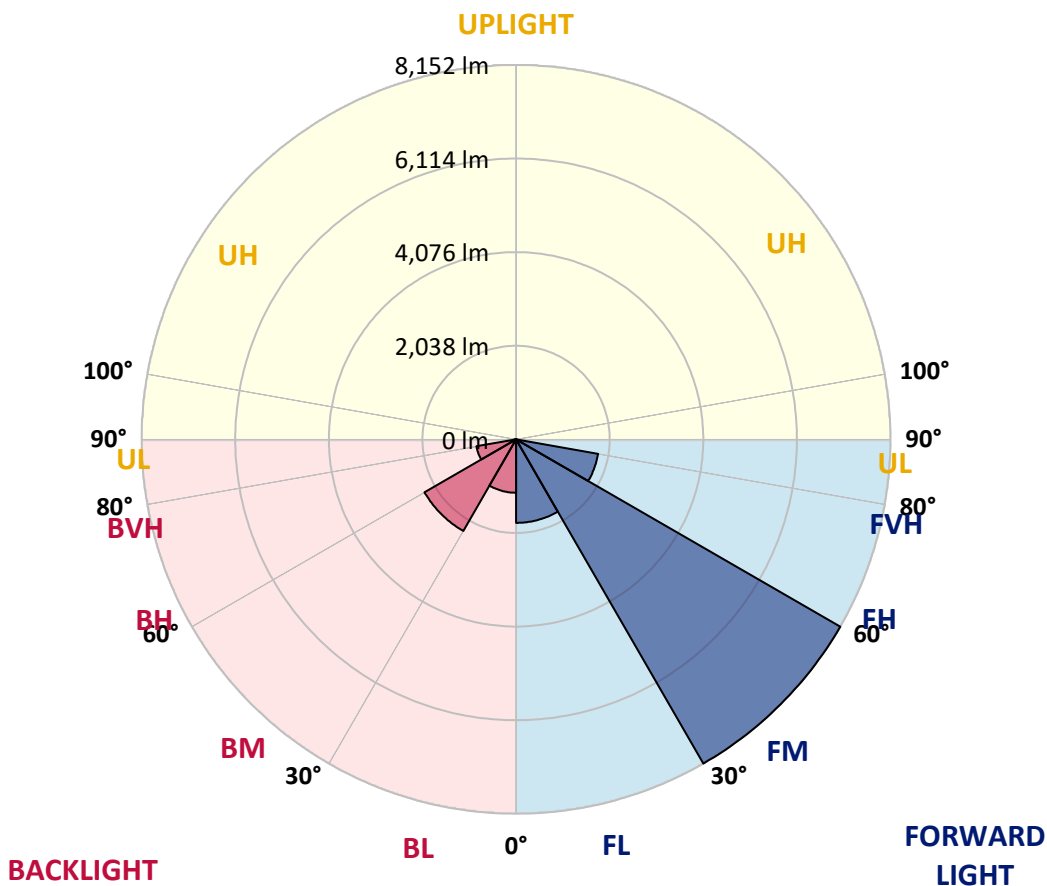
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1818.4	11.2			
FM (30°-60°)	8152.0	50.4			
FH (60°-80°)	1814.0	11.2			G2/5000
FVH (80°-90°)	21.4	0.1			G1/100
BL (0°-30°)	1163.1	7.2	B3/2500		
BM (30°-60°)	2302.5	14.2	B2/2500		
BH (60°-80°)	876.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	36.4	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°	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9
2.5°	3256.3	3264.6	3256.3	3270.2	3242.4	3229.9	3199.2	3153.3	3117.1	3111.6	3071.2
5°	3509.6	3527.6	3516.5	3511.0	3473.4	3445.5	3399.6	3307.8	3232.6	3221.5	3142.2
7.5°	3672.4	3684.9	3684.9	3689.1	3675.2	3643.2	3594.4	3485.9	3380.1	3363.4	3243.8
10°	3726.6	3736.4	3754.5	3789.3	3817.1	3826.8	3794.8	3690.5	3561.0	3544.3	3377.4
12.5°	3739.2	3750.3	3778.1	3842.1	3918.7	3988.3	3993.8	3917.3	3772.6	3754.5	3531.8
15°	3762.8	3774.0	3811.5	3890.9	4003.6	4137.2	4219.3	4166.4	4006.4	3986.9	3707.2
17.5°	3760.0	3772.6	3828.2	3934.0	4085.7	4279.1	4437.7	4460.0	4294.4	4261.0	3906.2
20°	3753.1	3764.2	3824.1	3953.5	4141.3	4407.1	4693.8	4809.3	4631.2	4600.6	4138.6
22.5°	3808.7	3821.3	3867.2	3974.3	4170.6	4505.9	4930.4	5208.7	5030.6	4987.4	4405.7
25°	3934.0	3952.1	3979.9	4053.7	4223.4	4593.6	5172.5	5660.9	5478.6	5427.2	4696.6
27.5°	4127.4	4149.7	4188.6	4223.4	4341.7	4704.9	5413.2	6167.5	5985.2	5930.9	5004.1
30°	4364.0	4393.2	4443.3	4467.0	4547.7	4869.1	5674.9	6689.3	6583.6	6508.4	5350.6
32.5°	4691.0	4731.4	4778.7	4785.6	4834.3	5118.2	5933.7	7207.0	7205.6	7152.7	5744.4
35°	5116.8	5160.0	5169.7	5179.5	5203.1	5460.6	6246.8	7678.7	7861.0	7799.8	6173.0
37.5°	5581.6	5644.2	5659.5	5616.4	5649.8	5872.5	6598.9	8057.2	8431.6	8366.2	6587.7
40°	6078.4	6103.5	6145.2	6077.0	6118.8	6344.2	6944.0	8299.4	8857.4	8787.8	6914.7
42.5°	6434.7	6480.6	6543.2	6518.1	6541.8	6747.8	7186.1	8416.3	9160.8	9091.2	7149.9
45°	6821.5	6835.4	6875.8	6870.2	6884.1	7076.2	7360.1	8467.7	9432.1	9369.5	7350.3
47.5°	7158.3	7179.1	7205.6	7175.0	7144.4	7269.6	7502.0	8512.3	9745.2	9670.1	7560.4
50°	7482.5	7500.6	7532.6	7443.5	7329.4	7361.4	7571.6	8573.5	10038.8	9986.0	7726.0
52.5°	7542.4	7561.8	7712.1	7730.2	7584.1	7471.4	7694.0	8708.5	10211.4	10178.0	7785.9
55°	6789.5	6824.3	7123.5	7467.2	7827.6	7791.4	7890.2	8779.5	10279.6	10287.9	7893.0
57.5°	5269.9	5320.0	5757.0	6228.7	6987.1	7614.7	7915.3	8761.4	10255.9	10301.8	8003.0
60°	3456.7	3485.9	4003.6	4532.4	5318.6	6187.0	7084.5	8435.7	10045.8	10111.2	7975.1
62.5°	2087.4	2120.8	2536.8	2937.6	3401.0	3981.3	4805.1	6779.8	8420.4	8566.6	6387.3
65°	1457.0	1501.5	1866.1	2195.9	2355.9	2236.3	2433.9	3786.5	5246.2	5307.5	3903.4
67.5°	1056.2	1086.8	1386.0	1778.4	1955.2	1579.4	1203.7	1676.9	2285.0	2307.2	1610.1
70°	691.6	726.4	997.8	1354.0	1596.1	1280.3	900.4	907.3	961.6	972.7	935.1
72.5°	379.9	400.8	616.5	899.0	943.5	765.4	702.7	754.2	791.8	791.8	801.5
75°	196.2	214.3	251.9	296.4	357.6	418.9	506.5	583.1	623.4	626.2	622.0
77.5°	100.2	107.2	135.0	146.1	160.0	186.5	242.1	310.3	346.5	360.4	357.6
80°	47.3	50.1	57.1	66.8	82.1	104.4	130.8	155.9	178.1	180.9	196.2
82.5°	25.0	27.8	30.6	36.2	44.5	55.7	76.5	91.8	105.8	108.5	121.1
85°	9.7	11.1	12.5	13.9	19.5	23.7	32.0	43.1	52.9	52.9	62.6
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	5.6	7.0	9.7	9.7	16.7
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°	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9	3030.9
2.5°	3061.5	3021.1	3003.0	2973.8	2950.1	2923.7	2902.8	2887.5	2877.8	2872.2	2866.6
5°	3111.6	3050.3	3001.6	2943.2	2902.8	2863.9	2831.9	2809.6	2798.5	2790.1	2784.5
7.5°	3189.5	3107.4	3015.5	2925.1	2854.1	2791.5	2751.1	2727.5	2712.2	2706.6	2702.4
10°	3296.6	3182.5	3030.9	2887.5	2781.8	2713.6	2685.7	2674.6	2676.0	2673.2	2671.8
12.5°	3417.7	3261.9	3026.7	2820.7	2703.8	2663.5	2664.9	2683.0	2703.8	2709.4	2710.8
15°	3548.5	3339.8	2986.3	2734.4	2642.6	2646.8	2683.0	2726.1	2765.1	2780.4	2783.2
17.5°	3690.5	3405.2	2912.6	2639.8	2592.5	2637.0	2703.8	2774.8	2831.9	2856.9	2863.9
20°	3849.1	3460.9	2808.2	2546.6	2545.2	2618.9	2716.4	2809.6	2882.0	2915.4	2920.9
22.5°	4017.5	3495.6	2680.2	2460.3	2496.5	2595.3	2706.6	2804.0	2880.6	2914.0	2920.9
25°	4187.3	3506.8	2539.6	2381.0	2446.4	2557.7	2659.3	2737.2	2809.6	2838.8	2844.4
27.5°	4345.9	3474.8	2406.0	2312.8	2400.5	2502.1	2570.2	2612.0	2662.1	2684.4	2688.5
30°	4507.3	3410.8	2293.3	2258.5	2349.0	2425.5	2456.1	2458.9	2478.4	2478.4	2481.2
32.5°	4670.1	3316.1	2194.5	2205.7	2285.0	2335.1	2339.2	2307.2	2283.6	2244.6	2243.2
35°	4858.0	3220.1	2113.8	2145.8	2209.8	2240.4	2227.9	2166.7	2109.6	2045.6	2042.8
37.5°	5031.9	3121.3	2045.6	2084.6	2124.9	2147.2	2118.0	2044.2	1996.9	1931.5	1921.8
40°	5175.3	3032.2	1980.2	2020.6	2040.1	2059.5	2012.2	1952.4	1959.3	1923.2	1921.8
42.5°	5258.8	2946.0	1919.0	1949.6	1962.1	1976.0	1934.3	1889.8	1927.3	1899.5	1900.9
45°	5320.0	2870.8	1863.3	1874.5	1905.1	1925.9	1887.0	1836.9	1845.2	1738.1	1713.0
47.5°	5389.6	2829.1	1810.4	1799.3	1853.6	1889.8	1829.9	1757.6	1707.5	1601.7	1592.0
50°	5463.3	2813.8	1754.8	1724.2	1789.6	1824.4	1754.8	1664.3	1598.9	1541.9	1536.3
52.5°	5488.4	2812.4	1685.2	1633.7	1699.1	1747.8	1689.4	1597.5	1519.6	1463.9	1461.2
55°	5587.2	2852.7	1596.1	1509.9	1571.1	1671.3	1628.1	1495.9	1433.3	1408.3	1405.5
57.5°	5702.7	2859.7	1455.6	1374.9	1459.8	1578.0	1523.8	1409.7	1341.5	1310.9	1308.1
60°	5655.4	2688.5	1305.3	1271.9	1365.1	1490.4	1440.3	1341.5	1262.2	1232.9	1230.2
62.5°	4309.7	1898.1	1195.4	1182.8	1263.6	1363.7	1354.0	1251.0	1175.9	1155.0	1152.2
65°	2592.5	1333.1	1089.6	1088.2	1145.3	1241.3	1253.8	1170.3	1091.0	1061.8	1061.8
67.5°	1281.6	1020.0	969.9	963.0	999.2	1067.3	1120.2	1052.0	985.2	957.4	953.2
70°	905.9	899.0	882.3	862.8	869.7	897.6	919.8	862.8	791.8	764.0	758.4
72.5°	783.5	784.8	773.7	758.4	752.8	733.4	713.9	672.1	629.0	599.8	602.6
75°	608.1	610.9	617.9	612.3	597.0	576.1	555.2	502.4	467.6	439.7	434.2
77.5°	354.9	368.8	391.0	385.5	388.3	359.0	350.7	299.2	267.2	247.7	243.5
80°	200.4	208.7	218.5	225.4	217.1	204.6	186.5	158.6	148.9	135.0	132.2
82.5°	121.1	129.4	133.6	139.2	136.4	119.7	105.8	87.7	79.3	72.4	71.0
85°	61.2	66.8	71.0	73.8	65.4	54.3	48.7	39.0	33.4	29.2	29.2
87.5°	15.3	16.7	19.5	16.7	15.3	7.0	5.6	1.4	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)