

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: P640308

Luminaire Tested: GWS-SA5D-750-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640308
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-750-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27045 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

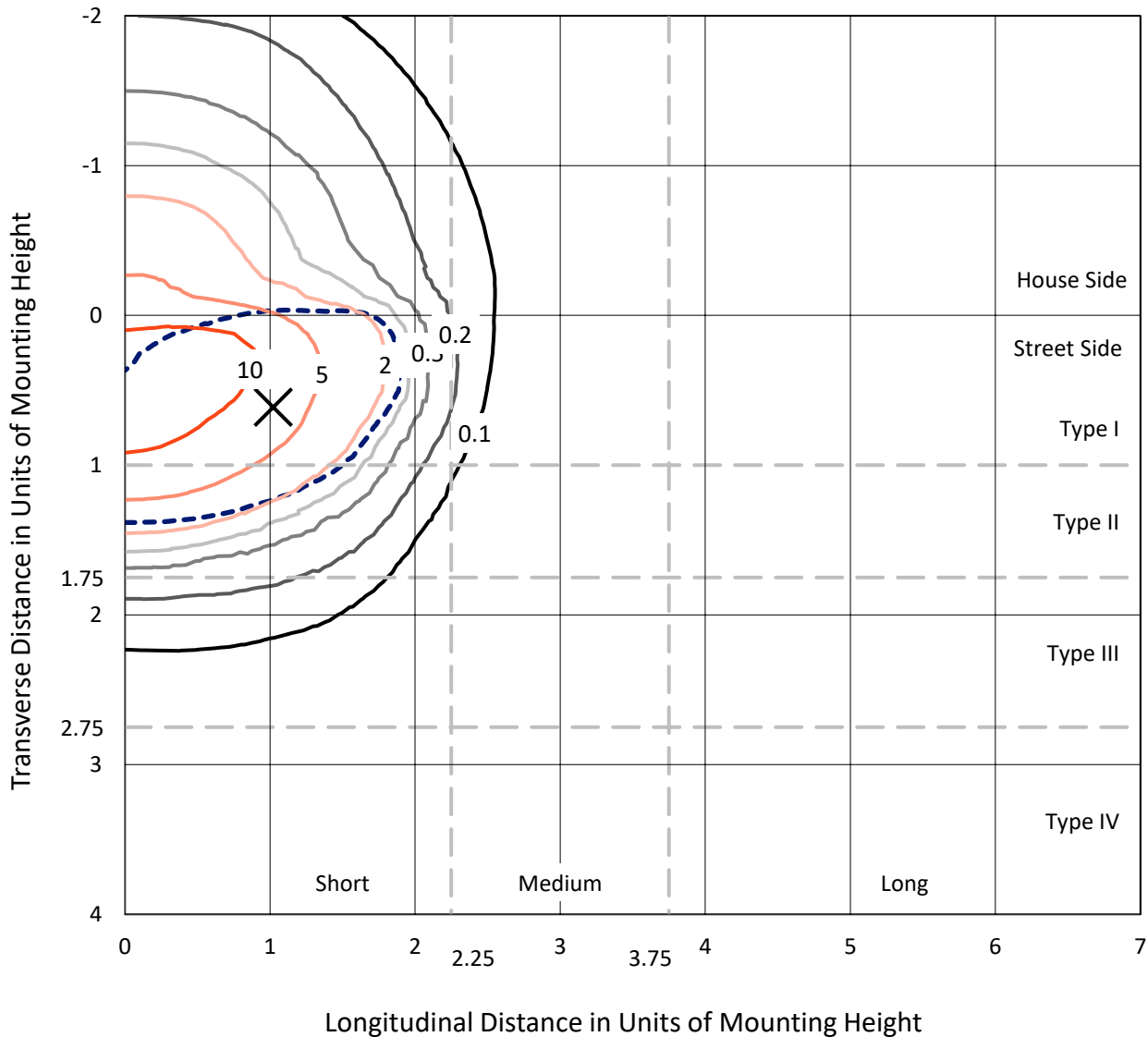
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

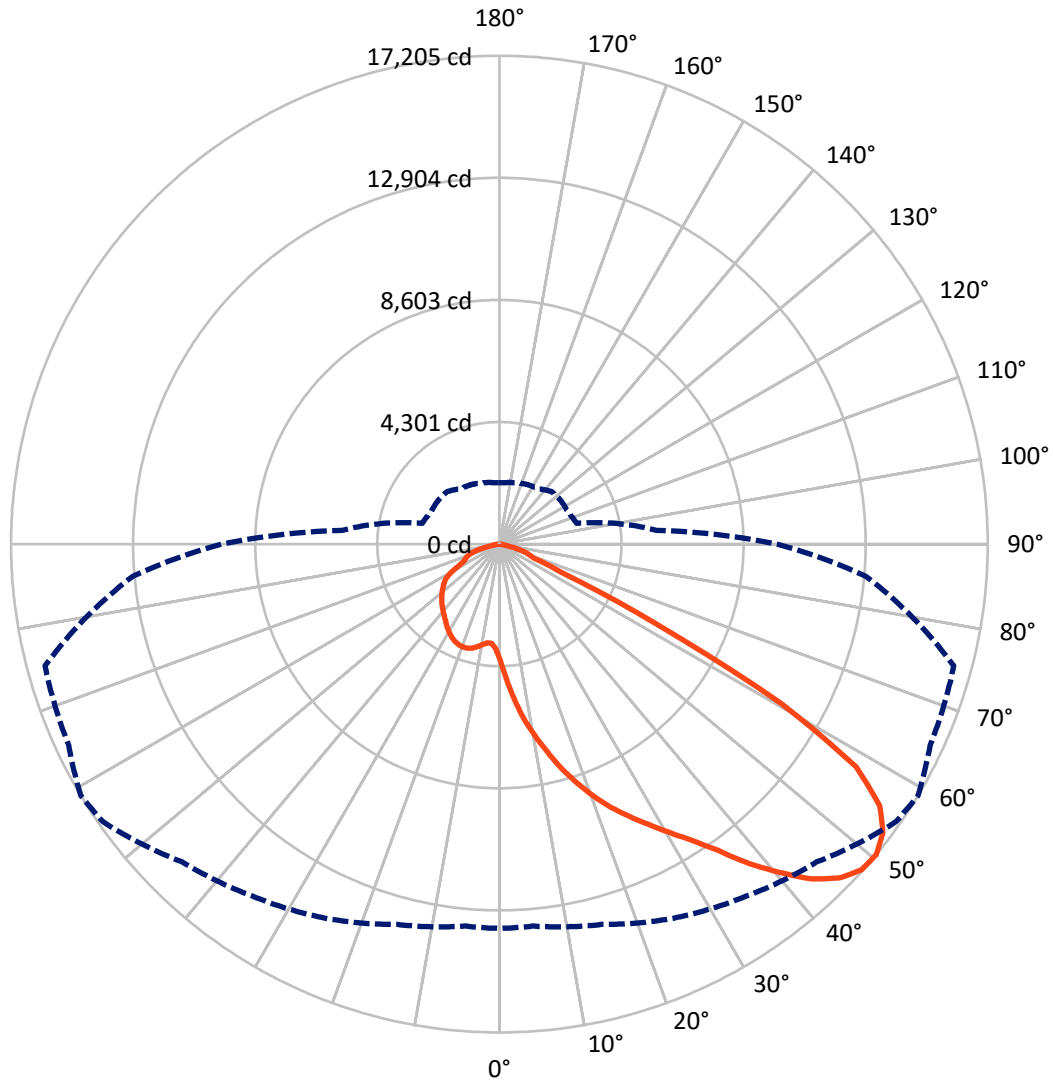
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6220.9	0.0	6220.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	20824.1	0.0	20824.1
	% Fixture	77.0	0.0	77.0
Total	Lumens	27045.0	0.0	27045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.7	1.7
10°-20°	1668.7	6.2
20°-30°	3159.8	11.7
30°-40°	5240.0	19.4
40°-50°	7158.1	26.5
50°-60°	6497.7	24.0
60°-70°	2163.8	8.0
70°-80°	631.1	2.3
80°-90°	66.3	0.2
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°	27045.0	100.0
0°-180°	27045.0	100.0

Coefficient of Utilization



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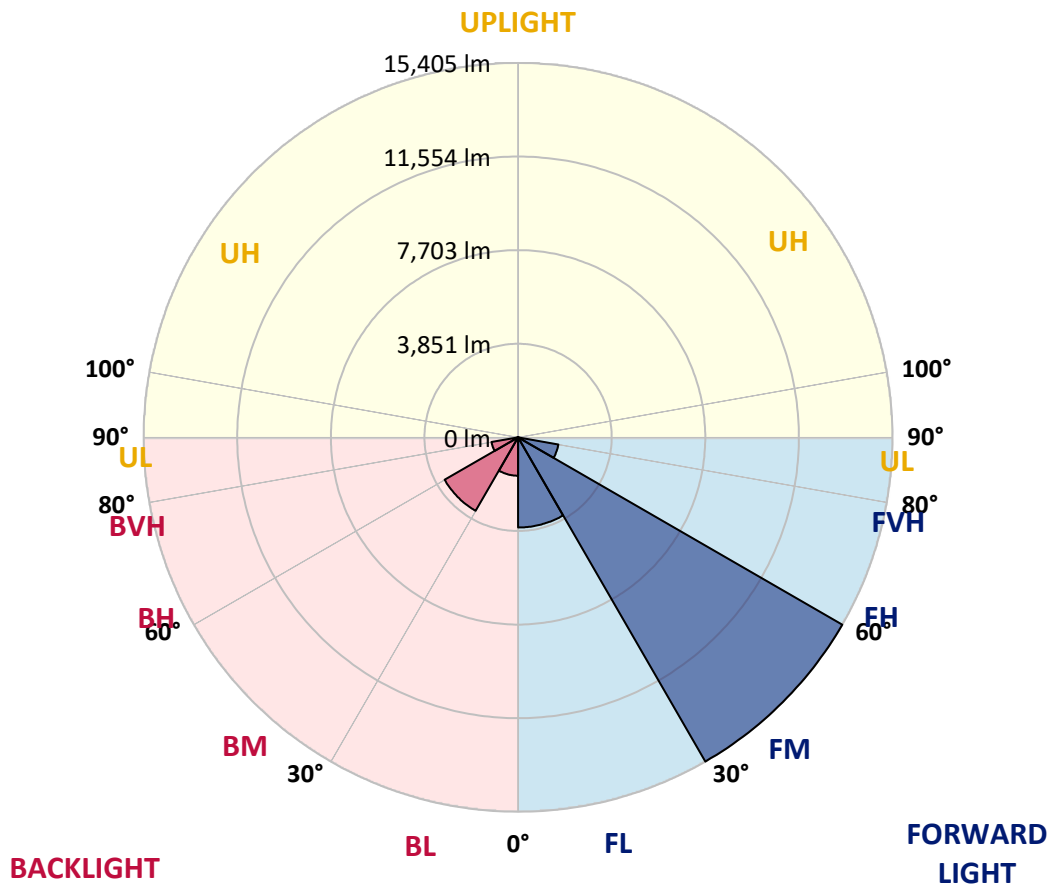
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3708.5	13.7			
FM (30°-60°)	15405.2	57.0			
FH (60°-80°)	1684.5	6.2			G1/1800
FVH (80°-90°)	25.9	0.1			G1/100
BL (0°-30°)	1579.6	5.8	B3/2500		
BM (30°-60°)	3490.5	12.9	B3/5000		
BH (60°-80°)	1110.4	4.1	B3/2500		G3/2500
BVH (80°-90°)	40.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5
2.5°	5309.1	5348.8	5287.1	5291.5	5137.3	5066.8	4868.5	4751.8	4674.7	4458.8	4262.7
5°	6379.8	6333.5	6285.0	6256.4	6122.0	5932.6	5685.8	5489.8	5309.1	4886.2	4478.6
7.5°	7036.3	7012.0	6979.0	6961.4	6829.2	6630.9	6384.2	6216.8	5954.6	5381.8	4740.8
10°	7593.6	7565.0	7545.1	7558.4	7450.4	7322.6	7053.9	6862.2	6567.0	5906.1	5058.0
12.5°	8025.4	8040.8	8047.4	8117.9	8071.7	7994.5	7717.0	7514.3	7186.1	6459.1	5430.3
15°	8366.8	8362.4	8439.5	8573.9	8648.8	8600.4	8377.9	8208.2	7807.3	7003.2	5831.2
17.5°	8446.2	8450.6	8571.7	8807.4	9052.0	9170.9	9045.4	8842.7	8446.2	7540.7	6247.6
20°	8510.0	8518.9	8644.4	8913.2	9270.1	9602.7	9622.5	9477.1	9135.7	8122.3	6670.6
22.5°	8913.2	8933.0	8966.1	9135.7	9457.3	9878.1	10109.4	10078.5	9792.2	8732.5	7126.6
25°	9972.8	9913.3	9752.5	9704.0	9827.4	10168.9	10563.2	10622.7	10481.7	9404.4	7617.8
27.5°	11281.4	11217.5	10979.6	10728.4	10461.9	10580.8	11001.6	11180.0	11182.2	10144.6	8111.3
30°	12468.8	12418.1	12224.2	11865.2	11404.7	11232.9	11543.5	11783.6	11926.8	10999.4	8673.1
32.5°	13484.3	13438.1	13175.9	12882.9	12433.5	12087.7	12200.0	12431.3	12766.2	12105.3	9371.4
35°	14339.1	14292.8	14041.7	13746.5	13330.1	13123.0	13083.4	13242.0	13676.0	13259.6	10173.3
37.5°	15033.0	14986.7	14724.6	14447.0	14129.8	14143.0	14202.5	14279.6	14528.5	14495.5	11030.2
40°	15482.4	15433.9	15246.7	15048.4	14848.0	15006.6	15301.8	15209.2	15341.4	15493.4	11818.9
42.5°	15682.9	15621.2	15513.3	15469.2	15407.5	15654.2	16222.6	16130.1	15971.5	16158.7	12404.9
45°	15482.4	15429.5	15427.3	15561.7	15704.9	16022.1	16859.3	16784.4	16383.4	16480.4	12755.1
47.5°	14867.8	14821.5	14947.1	15299.6	15652.0	16114.7	17143.4	17156.7	16676.4	16614.7	12982.1
50°	13539.4	13508.6	13872.0	14539.5	15147.6	15826.1	17053.1	17205.1	16746.9	16572.9	12953.4
52.5°	10838.6	10981.8	11772.6	12887.3	14068.1	15319.4	16718.3	16916.5	16407.7	16297.5	12799.2
55°	7419.6	7485.7	8276.5	9904.5	11777.0	14222.3	15949.4	16255.7	16006.7	16251.2	12960.0
57.5°	3842.0	3894.8	4518.3	5963.4	7987.9	11239.5	13814.8	14819.3	15198.2	16484.8	13460.1
60°	1577.3	1621.4	1879.1	2577.5	4029.2	6545.0	9942.0	11431.2	12321.2	15055.0	11953.3
62.5°	1145.5	1167.6	1290.9	1537.7	2110.4	3207.5	5626.4	6174.9	6800.5	9435.3	7589.2
65°	964.9	989.1	1088.3	1238.1	1539.9	1967.2	2403.4	2416.6	2663.4	3844.2	2813.2
67.5°	808.5	830.5	918.6	1046.4	1244.7	1396.7	1290.9	1293.1	1288.7	1394.5	1348.2
70°	630.0	647.7	735.8	872.4	975.9	896.6	1009.0	1116.9	1070.6	1112.5	1176.4
72.5°	460.4	480.2	557.3	660.9	634.5	638.9	817.3	927.4	901.0	947.3	1006.8
75°	332.6	345.9	385.5	330.4	348.1	420.8	575.0	634.5	660.9	700.5	753.4
77.5°	107.9	107.9	121.2	152.0	189.5	233.5	293.0	317.2	356.9	400.9	438.4
80°	55.1	57.3	68.3	83.7	105.7	134.4	171.8	182.8	202.7	226.9	242.3
82.5°	26.4	28.6	33.0	41.9	55.1	70.5	94.7	105.7	119.0	134.4	145.4
85°	6.6	6.6	8.8	13.2	17.6	26.4	35.2	41.9	52.9	63.9	70.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	6.6	8.8	11.0	13.2	17.6
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°	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5	4097.5
2.5°	4174.6	4051.2	3892.6	3758.3	3634.9	3540.2	3458.6	3419.0	3381.5	3355.1	3363.9
5°	4289.2	4077.7	3782.5	3577.6	3452.0	3388.2	3344.1	3322.1	3317.7	3300.0	3293.4
7.5°	4456.6	4154.8	3760.5	3553.4	3469.7	3436.6	3412.4	3399.2	3405.8	3388.2	3381.5
10°	4663.7	4282.6	3815.5	3632.7	3560.0	3535.8	3509.3	3491.7	3482.9	3456.4	3452.0
12.5°	4921.4	4441.2	3914.7	3734.0	3661.3	3619.5	3584.2	3553.4	3533.6	3500.5	3491.7
15°	5199.0	4617.4	4031.4	3833.2	3747.2	3685.6	3628.3	3582.0	3546.8	3502.7	3496.1
17.5°	5500.8	4802.5	4128.4	3901.4	3791.3	3709.8	3626.1	3557.8	3509.3	3452.0	3445.4
20°	5815.8	4989.7	4201.0	3934.5	3793.5	3683.4	3571.0	3480.7	3419.0	3361.7	3357.3
22.5°	6141.9	5161.5	4245.1	3925.7	3758.3	3621.7	3487.3	3386.0	3313.3	3245.0	3240.6
25°	6470.1	5326.8	4256.1	3890.4	3687.8	3529.1	3394.8	3275.8	3194.3	3117.2	3108.4
27.5°	6802.7	5465.5	4229.7	3819.9	3593.0	3421.2	3286.8	3170.1	3086.3	3009.2	2996.0
30°	7157.4	5584.5	4172.4	3727.4	3482.9	3306.6	3174.5	3086.3	3007.0	2929.9	2916.7
32.5°	7536.3	5688.0	4090.9	3615.1	3355.1	3192.1	3095.2	3015.9	2936.5	2868.3	2855.0
35°	7987.9	5756.3	3969.7	3469.7	3236.2	3108.4	3042.3	2949.8	2852.8	2777.9	2771.3
37.5°	8455.0	5809.2	3824.3	3330.9	3132.6	3059.9	3004.8	2879.3	2758.1	2667.8	2656.8
40°	8906.6	5853.3	3643.7	3200.9	3037.9	3024.7	2949.8	2793.4	2584.1	2482.7	2473.9
42.5°	9327.3	5866.5	3454.2	3062.1	2952.0	2945.4	2861.6	2619.3	2458.5	2394.6	2385.8
45°	9615.9	5855.5	3258.2	2932.1	2866.1	2830.8	2742.7	2493.8	2394.6	2337.3	2326.3
47.5°	9829.6	5798.2	3037.9	2795.6	2769.1	2720.7	2531.2	2414.4	2321.9	2264.6	2253.6
50°	9792.2	5560.3	2815.4	2663.4	2652.4	2610.5	2377.0	2315.3	2233.8	2172.1	2163.3
52.5°	9598.3	5108.7	2588.5	2518.0	2540.0	2458.5	2266.8	2196.4	2125.9	2055.4	2039.9
55°	9646.8	4782.6	2416.6	2377.0	2416.6	2231.6	2143.5	2068.6	2002.5	1934.2	1921.0
57.5°	9858.3	4461.0	2233.8	2225.0	2266.8	2057.6	1984.9	1890.1	1795.4	1740.3	1740.3
60°	8278.7	3251.6	1912.2	1934.2	2028.9	1916.6	1852.7	1755.8	1652.2	1603.8	1603.8
62.5°	4895.0	2039.9	1586.1	1561.9	1621.4	1691.9	1727.1	1647.8	1524.4	1460.6	1462.8
65°	2156.7	1484.8	1398.9	1379.1	1361.4	1409.9	1506.8	1513.4	1383.5	1308.6	1310.8
67.5°	1328.4	1343.8	1308.6	1293.1	1277.7	1268.9	1260.1	1264.5	1229.3	1161.0	1158.8
70°	1198.4	1240.3	1216.0	1202.8	1183.0	1167.6	1114.7	1028.8	969.3	951.7	971.5
72.5°	1031.0	1088.3	1075.0	1068.4	1044.2	1006.8	936.3	852.5	782.1	738.0	746.8
75°	777.6	823.9	830.5	832.7	806.3	771.0	698.3	627.8	566.2	519.9	530.9
77.5°	447.2	473.6	480.2	486.9	467.0	453.8	405.3	354.7	321.6	273.2	286.4
80°	248.9	259.9	259.9	262.2	251.1	235.7	202.7	174.0	158.6	136.6	138.8
82.5°	149.8	154.2	156.4	158.6	152.0	136.6	112.4	92.5	83.7	72.7	70.5
85°	72.7	77.1	77.1	79.3	68.3	59.5	46.3	35.2	30.8	22.0	24.2
87.5°	17.6	19.8	19.8	17.6	15.4	11.0	6.6	2.2	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)