

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: P638218

Luminaire Tested: GWS-SA4E-735-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638218
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-SA4E-735-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26564.3 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

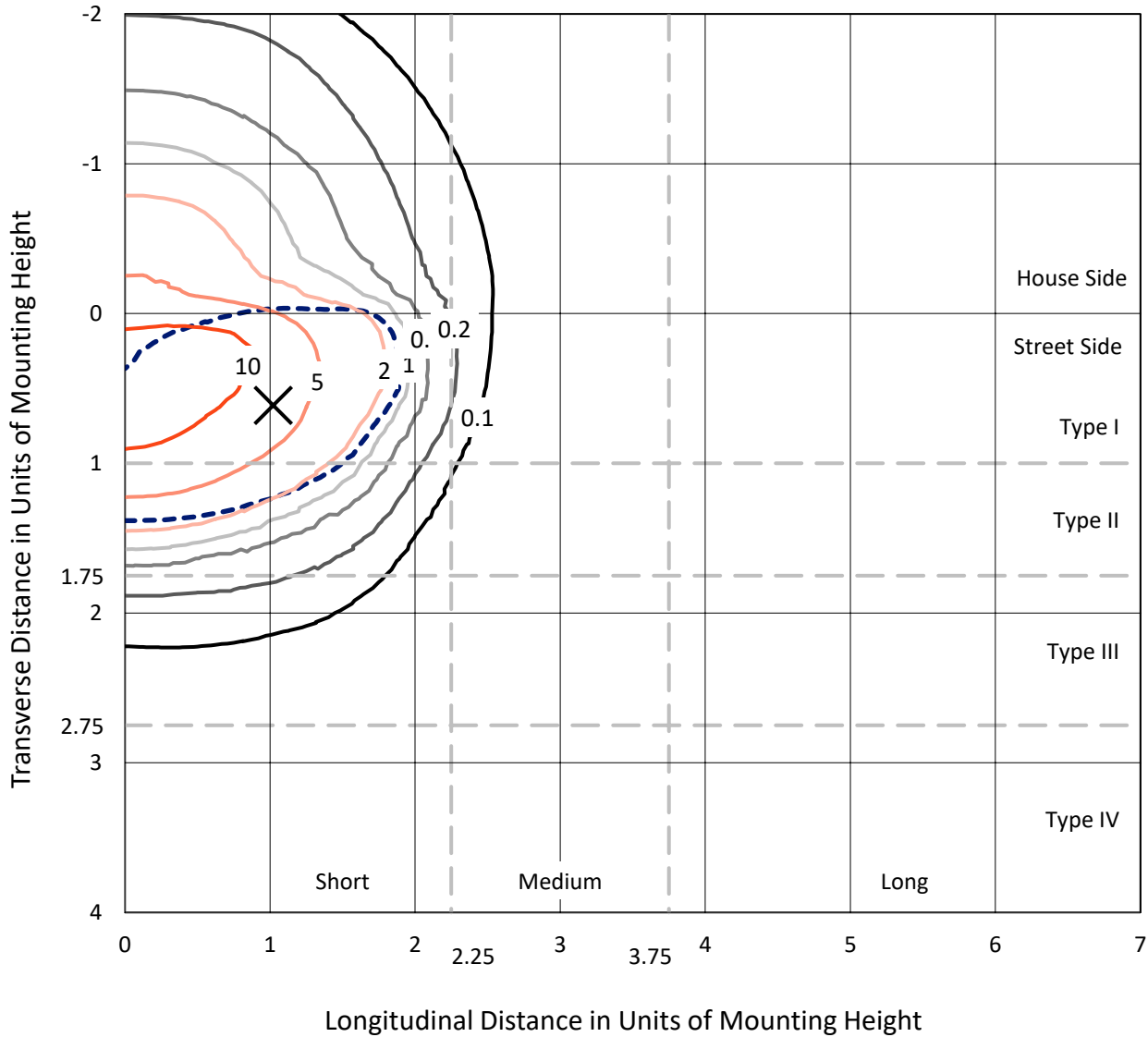
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

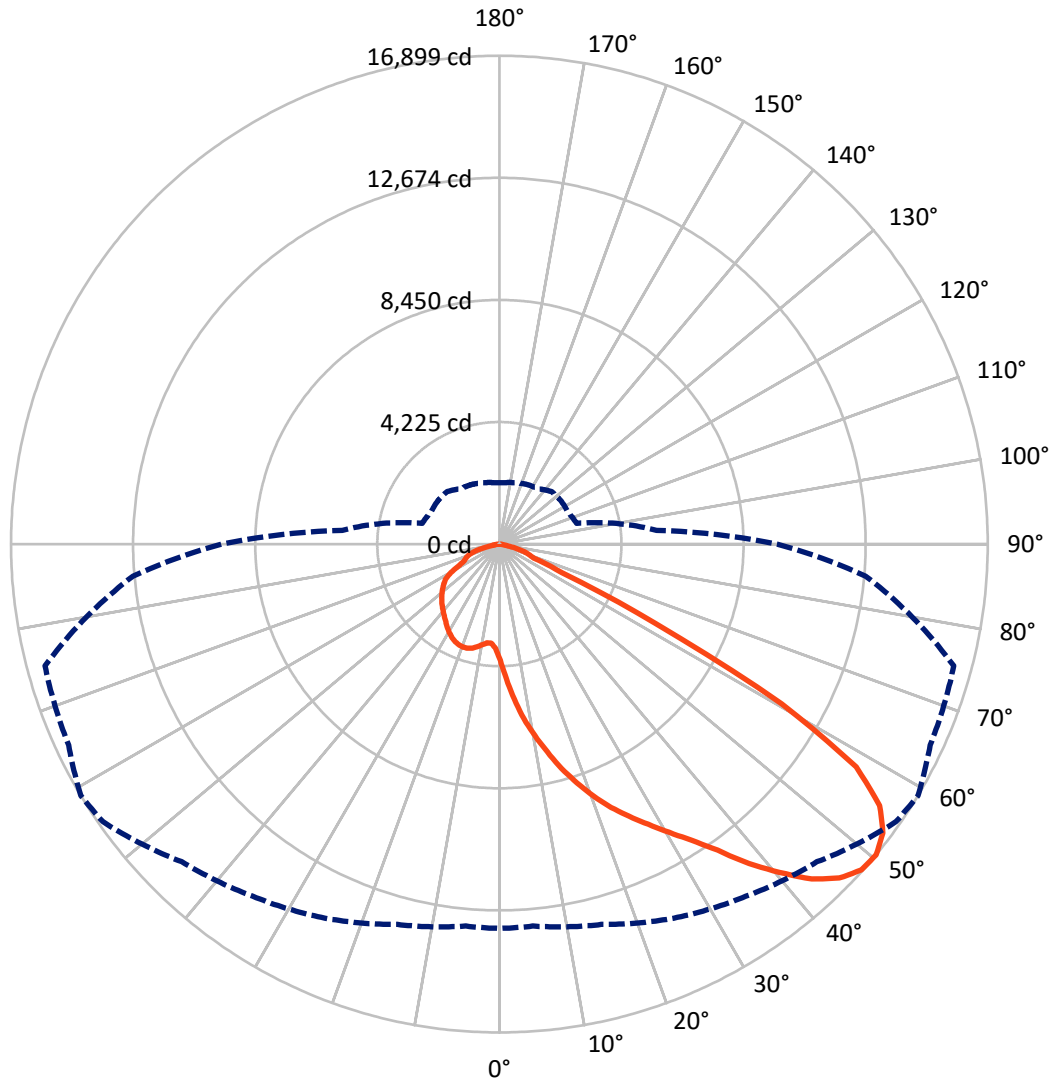
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 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	6110.3	0.0	6110.3
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	20454.0	0.0	20454.0
	% Fixture	77.0	0.0	77.0
Total	Lumens	26564.3	0.0	26564.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	451.5	1.7
10°-20°	1639.0	6.2
20°-30°	3103.6	11.7
30°-40°	5146.8	19.4
40°-50°	7030.8	26.5
50°-60°	6382.2	24.0
60°-70°	2125.3	8.0
70°-80°	619.9	2.3
80°-90°	65.1	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°	26564.3	100.0
0°-180°	26564.3	100.0

Coefficient of Utilization



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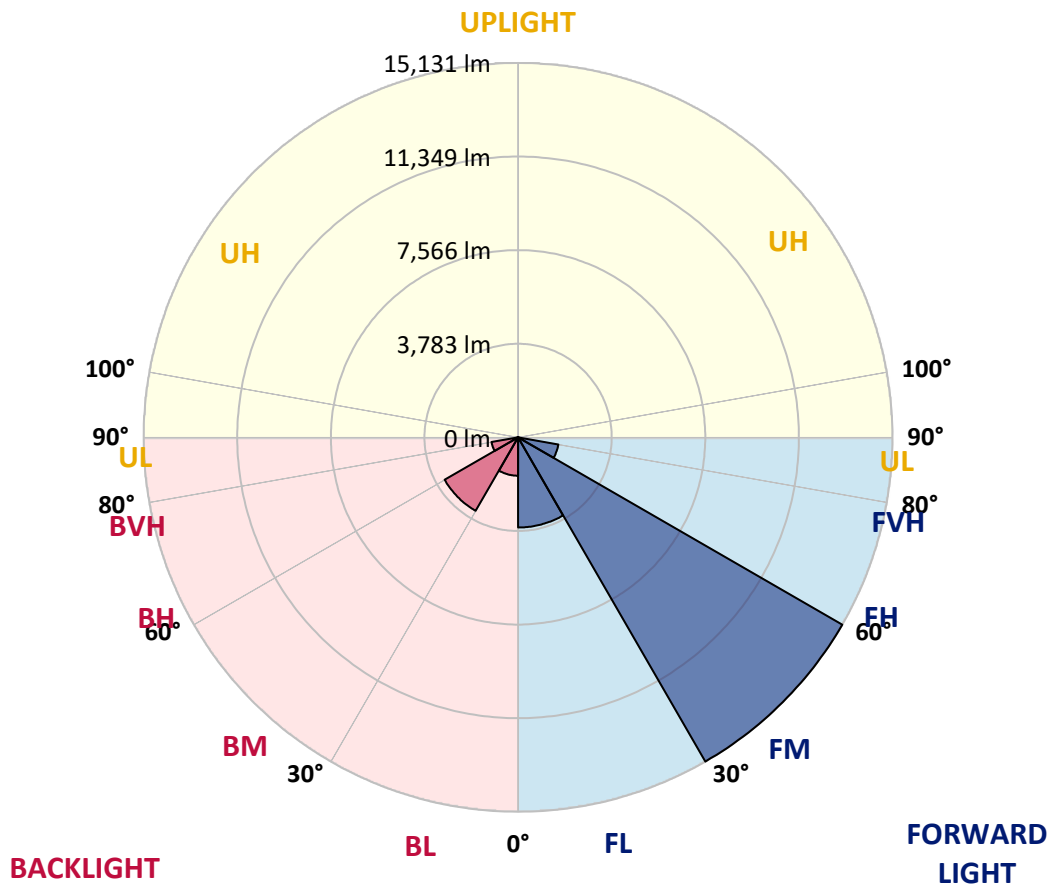
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3642.6	13.7			
FM (30°-60°)	15131.4	57.0			
FH (60°-80°)	1654.6	6.2			G1/1800
FVH (80°-90°)	25.5	0.1			G1/100
BL (0°-30°)	1551.5	5.8	B3/2500		
BM (30°-60°)	3428.5	12.9	B3/5000		
BH (60°-80°)	1090.6	4.1	B3/2500		G3/2500
BVH (80°-90°)	39.6	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°	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7
2.5°	5214.8	5253.7	5193.1	5197.5	5046.0	4976.8	4782.0	4667.3	4591.6	4379.5	4187.0
5°	6266.4	6220.9	6173.3	6145.2	6013.2	5827.1	5584.8	5392.2	5214.8	4799.3	4399.0
7.5°	6911.2	6887.4	6854.9	6837.6	6707.8	6513.1	6270.7	6106.3	5848.8	5286.2	4656.5
10°	7458.6	7430.5	7411.0	7424.0	7318.0	7192.5	6928.5	6740.3	6450.3	5801.2	4968.1
12.5°	7882.7	7897.9	7904.4	7973.6	7928.2	7852.5	7579.8	7380.7	7058.3	6344.3	5333.8
15°	8218.1	8213.8	8289.5	8421.5	8495.1	8447.5	8229.0	8062.3	7668.5	6878.7	5727.6
17.5°	8296.0	8300.4	8419.4	8650.9	8891.1	9007.9	8884.6	8685.5	8296.0	7406.7	6136.6
20°	8358.8	8367.4	8490.8	8754.8	9105.3	9432.0	9451.5	9308.7	8973.3	7978.0	6552.0
22.5°	8754.8	8774.2	8806.7	8973.3	9289.2	9702.5	9929.7	9899.4	9618.1	8577.3	6999.9
25°	9795.6	9737.1	9579.2	9531.6	9652.7	9988.1	10375.5	10433.9	10295.4	9237.3	7482.4
27.5°	11080.9	11018.1	10784.4	10537.7	10275.9	10392.8	10806.0	10981.3	10983.5	9964.3	7967.1
30°	12247.1	12197.4	12007.0	11654.3	11202.0	11033.2	11338.3	11574.2	11714.8	10803.9	8518.9
32.5°	13244.7	13199.2	12941.7	12653.9	12212.5	11872.8	11983.2	12210.4	12539.3	11890.1	9204.8
35°	14084.2	14038.8	13792.1	13502.1	13093.2	12889.8	12850.8	13006.6	13432.9	13023.9	9992.5
37.5°	14765.8	14720.4	14462.9	14190.2	13878.7	13891.6	13950.1	14025.8	14270.3	14237.8	10834.2
40°	15207.2	15159.6	14975.7	14781.0	14584.1	14739.8	15029.8	14938.9	15068.7	15218.0	11608.8
42.5°	15404.1	15343.5	15237.5	15194.2	15133.7	15376.0	15934.3	15843.4	15687.6	15871.5	12184.4
45°	15207.2	15155.3	15153.1	15285.1	15425.8	15737.4	16559.6	16486.0	16092.2	16187.4	12528.4
47.5°	14603.5	14558.1	14681.4	15027.6	15373.8	15828.2	16838.7	16851.7	16380.0	16319.4	12751.3
50°	13298.8	13268.5	13625.5	14281.1	14878.3	15544.8	16750.0	16899.3	16449.3	16278.3	12723.2
52.5°	10645.9	10786.6	11563.4	12658.3	13818.1	15047.1	16421.1	16615.9	16116.0	16007.8	12571.7
55°	7287.7	7352.6	8129.4	9728.5	11567.7	13969.5	15666.0	15966.7	15722.2	15962.4	12729.7
57.5°	3773.7	3825.6	4438.0	5857.4	7846.0	11039.7	13569.2	14555.9	14928.1	16191.8	13220.9
60°	1549.3	1592.6	1845.7	2531.7	3957.6	6428.7	9765.3	11228.0	12102.2	14787.5	11740.8
62.5°	1125.2	1146.8	1268.0	1510.3	2072.9	3150.5	5526.4	6065.1	6679.7	9267.6	7454.3
65°	947.7	971.5	1068.9	1216.1	1512.5	1932.3	2360.7	2373.7	2616.0	3775.8	2763.2
67.5°	794.1	815.8	902.3	1027.8	1222.6	1371.9	1268.0	1270.2	1265.8	1369.7	1324.2
70°	618.8	636.2	722.7	856.9	958.6	880.7	991.0	1097.0	1051.6	1092.7	1155.5
72.5°	452.2	471.7	547.4	649.1	623.2	627.5	802.8	911.0	885.0	930.4	988.9
75°	326.7	339.7	378.7	324.6	341.9	413.3	564.8	623.2	649.1	688.1	740.0
77.5°	106.0	106.0	119.0	149.3	186.1	229.4	287.8	311.6	350.5	393.8	430.6
80°	54.1	56.3	67.1	82.2	103.9	132.0	168.8	179.6	199.1	222.9	238.0
82.5°	26.0	28.1	32.5	41.1	54.1	69.2	93.0	103.9	116.8	132.0	142.8
85°	6.5	6.5	8.7	13.0	17.3	26.0	34.6	41.1	51.9	62.8	69.2
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	6.5	8.7	10.8	13.0	17.3
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°	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7	4024.7
2.5°	4100.4	3979.2	3823.4	3691.5	3570.3	3477.2	3397.2	3358.2	3321.4	3295.5	3304.1
5°	4212.9	4005.2	3715.3	3514.0	3390.7	3327.9	3284.7	3263.0	3258.7	3241.4	3234.9
7.5°	4377.4	4080.9	3693.6	3490.2	3408.0	3375.5	3351.7	3338.8	3345.2	3327.9	3321.4
10°	4580.8	4206.4	3747.7	3568.1	3496.7	3472.9	3446.9	3429.6	3421.0	3395.0	3390.7
12.5°	4833.9	4362.2	3845.1	3667.7	3596.2	3555.1	3520.5	3490.2	3470.7	3438.3	3429.6
15°	5106.6	4535.3	3959.8	3765.0	3680.6	3620.0	3563.8	3518.3	3483.7	3440.5	3434.0
17.5°	5403.0	4717.1	4055.0	3832.1	3723.9	3643.8	3561.6	3494.5	3446.9	3390.7	3384.2
20°	5712.4	4901.0	4126.4	3864.6	3726.1	3617.9	3507.5	3418.8	3358.2	3302.0	3297.6
22.5°	6032.7	5069.8	4169.7	3855.9	3691.5	3557.3	3425.3	3325.8	3254.4	3187.3	3183.0
25°	6355.1	5232.1	4180.5	3821.3	3622.2	3466.4	3334.4	3217.6	3137.5	3061.8	3053.1
27.5°	6681.8	5368.4	4154.5	3752.0	3529.2	3360.4	3228.4	3113.7	3031.5	2955.8	2942.8
30°	7030.2	5485.2	4098.2	3661.2	3421.0	3247.9	3118.0	3031.5	2953.6	2877.9	2864.9
32.5°	7402.4	5586.9	4018.2	3550.8	3295.5	3135.4	3040.1	2962.3	2884.4	2817.3	2804.3
35°	7846.0	5654.0	3899.2	3408.0	3178.6	3053.1	2988.2	2897.3	2802.1	2728.6	2722.1
37.5°	8304.7	5706.0	3756.4	3271.7	3076.9	3005.5	2951.4	2828.1	2709.1	2620.4	2609.6
40°	8748.3	5749.2	3578.9	3144.0	2983.9	2970.9	2897.3	2743.7	2538.1	2438.6	2430.0
42.5°	9161.6	5762.2	3392.8	3007.7	2899.5	2893.0	2810.8	2572.8	2414.8	2352.1	2343.4
45°	9445.0	5751.4	3200.3	2880.0	2815.1	2780.5	2693.9	2449.4	2352.1	2295.8	2285.0
47.5°	9654.9	5695.1	2983.9	2745.9	2719.9	2672.3	2486.2	2371.5	2280.7	2224.4	2213.6
50°	9618.1	5461.4	2765.3	2616.0	2605.2	2564.1	2334.7	2274.2	2194.1	2133.5	2124.9
52.5°	9427.7	5017.9	2542.5	2473.2	2494.9	2414.8	2226.6	2157.3	2088.1	2018.8	2003.7
55°	9475.3	4697.6	2373.7	2334.7	2373.7	2191.9	2105.4	2031.8	1966.9	1899.8	1886.8
57.5°	9683.0	4381.7	2194.1	2185.4	2226.6	2021.0	1949.6	1856.5	1763.5	1709.4	1709.4
60°	8131.6	3193.8	1878.2	1899.8	1992.9	1882.5	1819.8	1724.6	1622.9	1575.3	1575.3
62.5°	4808.0	2003.7	1557.9	1534.1	1592.6	1661.8	1696.4	1618.5	1497.4	1434.6	1436.8
65°	2118.4	1458.4	1374.0	1354.5	1337.2	1384.8	1480.0	1486.5	1358.9	1285.3	1287.5
67.5°	1304.8	1319.9	1285.3	1270.2	1255.0	1246.4	1237.7	1242.0	1207.4	1140.3	1138.2
70°	1177.1	1218.2	1194.4	1181.4	1162.0	1146.8	1094.9	1010.5	952.1	934.8	954.2
72.5°	1012.7	1068.9	1055.9	1049.4	1025.6	988.9	919.6	837.4	768.2	724.9	733.5
75°	763.8	809.3	815.8	817.9	792.0	757.3	685.9	616.7	556.1	510.7	521.5
77.5°	439.3	465.2	471.7	478.2	458.7	445.7	398.1	348.4	315.9	268.3	281.3
80°	244.5	255.3	255.3	257.5	246.7	231.5	199.1	170.9	155.8	134.2	136.3
82.5°	147.1	151.5	153.6	155.8	149.3	134.2	110.4	90.9	82.2	71.4	69.2
85°	71.4	75.7	75.7	77.9	67.1	58.4	45.4	34.6	30.3	21.6	23.8
87.5°	17.3	19.5	19.5	17.3	15.1	10.8	6.5	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)