

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: P642948

Luminaire Tested: GWS-SA6D-830-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642948
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-SA6D-830-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25044.5 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

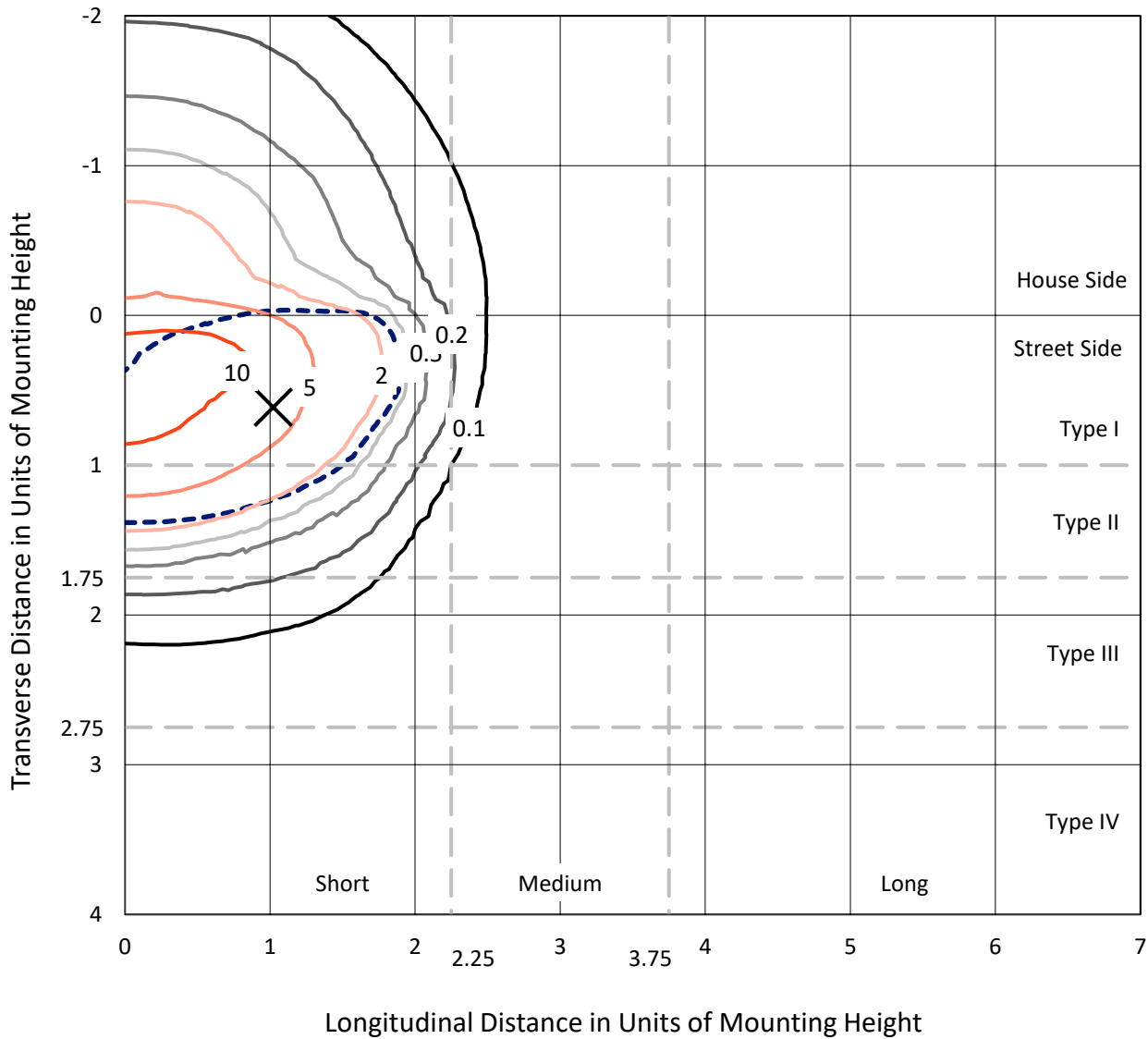
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

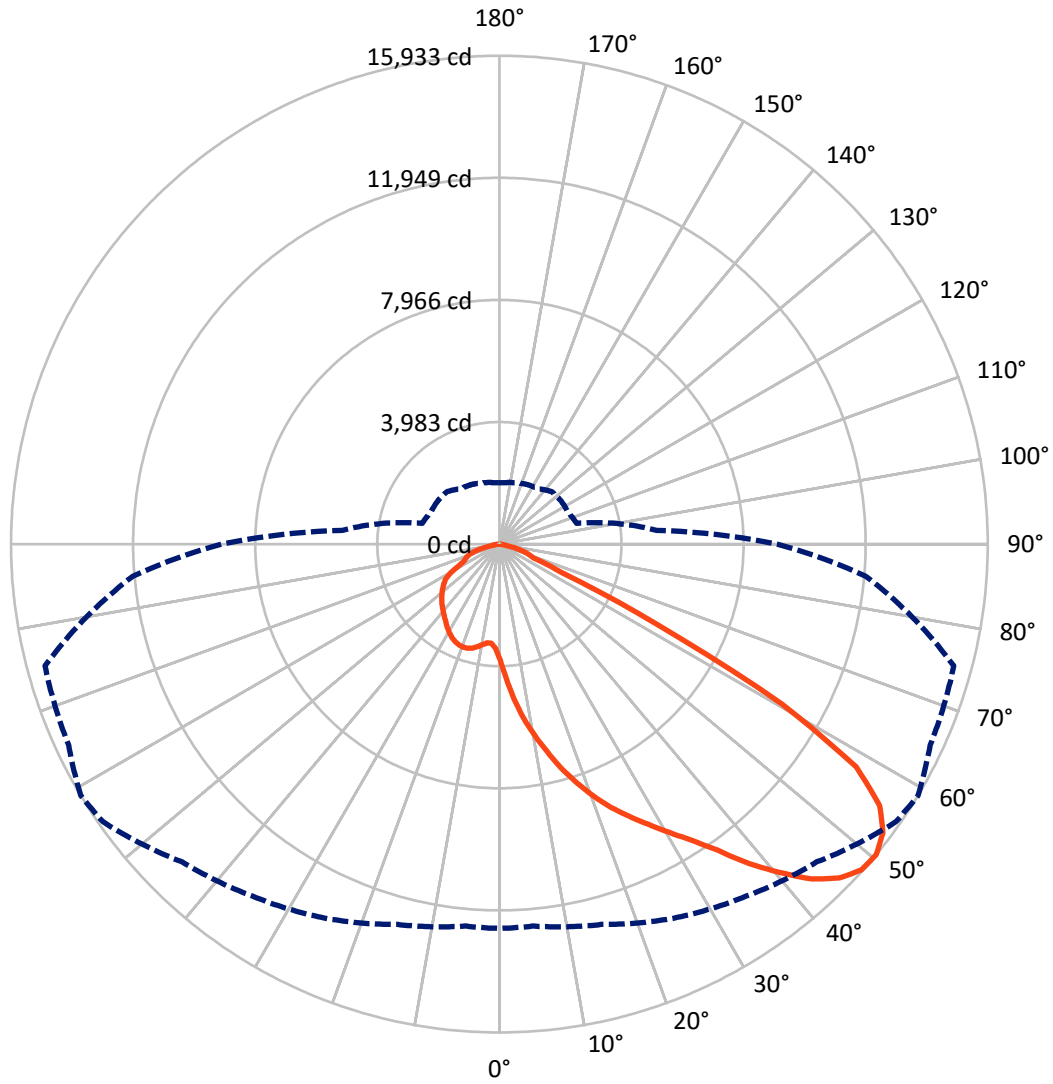
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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	5760.7	0.0	5760.7
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	19283.8	0.0	19283.8
	% Fixture	77.0	0.0	77.0
Total	Lumens	25044.5	0.0	25044.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.7	1.7
10°-20°	1545.3	6.2
20°-30°	2926.1	11.7
30°-40°	4852.4	19.4
40°-50°	6628.6	26.5
50°-60°	6017.0	24.0
60°-70°	2003.7	8.0
70°-80°	584.4	2.3
80°-90°	61.4	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°	25044.5	100.0
0°-180°	25044.5	100.0

Coefficient of Utilization



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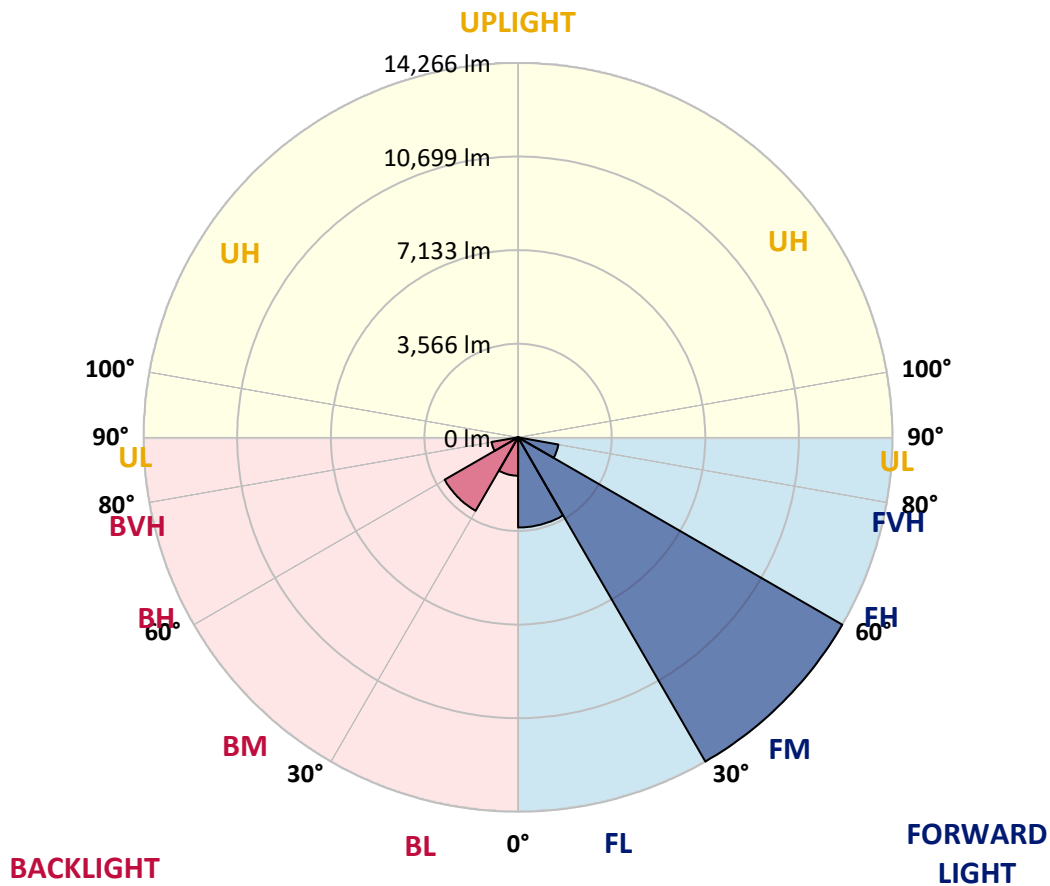
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3434.2	13.7			
FM (30°-60°)	14265.7	57.0			
FH (60°-80°)	1559.9	6.2			G1/1800
FVH (80°-90°)	24.0	0.1			G1/100
BL (0°-30°)	1462.8	5.8	B3/2500		
BM (30°-60°)	3232.3	12.9	B3/5000		
BH (60°-80°)	1028.2	4.1	B3/2500		G3/2500
BVH (80°-90°)	37.4	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°	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4
2.5°	4916.4	4953.1	4896.0	4900.1	4757.3	4692.0	4508.4	4400.3	4328.9	4129.0	3947.4
5°	5907.9	5865.0	5820.1	5793.6	5669.2	5493.7	5265.3	5083.7	4916.4	4524.7	4147.3
7.5°	6515.8	6493.4	6462.8	6446.4	6324.0	6140.4	5911.9	5756.9	5514.1	4983.7	4390.1
10°	7031.9	7005.4	6987.0	6999.3	6899.3	6781.0	6532.1	6354.6	6081.3	5469.3	4683.9
12.5°	7431.8	7446.0	7452.2	7517.4	7474.6	7403.2	7146.2	6958.5	6654.5	5981.3	5028.6
15°	7748.0	7743.9	7815.3	7939.7	8009.1	7964.2	7758.2	7601.1	7229.8	6485.2	5399.9
17.5°	7821.4	7825.5	7937.7	8156.0	8382.4	8492.6	8376.3	8188.6	7821.4	6983.0	5785.5
20°	7880.6	7888.7	8005.0	8253.9	8584.4	8892.4	8910.8	8776.1	8459.9	7521.5	6177.2
22.5°	8253.9	8272.2	8302.8	8459.9	8757.8	9147.4	9361.6	9333.0	9067.8	8086.6	6599.4
25°	9235.1	9180.0	9031.1	8986.2	9100.5	9416.7	9781.8	9836.9	9706.4	8708.8	7054.4
27.5°	10446.9	10387.7	10167.4	9934.8	9688.0	9798.2	10187.8	10353.1	10355.1	9394.2	7511.3
30°	11546.5	11499.5	11320.0	10987.5	10561.1	10402.0	10689.7	10912.0	11044.6	10185.8	8031.5
32.5°	12486.9	12444.1	12201.3	11930.0	11513.8	11193.5	11297.6	11511.8	11821.9	11209.9	8678.2
35°	13278.4	13235.6	13003.0	12729.7	12344.1	12152.3	12115.6	12262.5	12664.4	12278.8	9420.8
37.5°	13921.0	13878.2	13635.4	13378.4	13084.6	13096.9	13151.9	13223.3	13453.9	13423.3	10214.3
40°	14337.2	14292.3	14118.9	13935.3	13749.7	13896.5	14169.9	14084.2	14206.6	14347.4	10944.7
42.5°	14522.8	14465.7	14365.8	14325.0	14267.8	14496.3	15022.6	14937.0	14790.1	14963.5	11487.3
45°	14337.2	14288.2	14286.2	14410.6	14543.2	14837.0	15612.2	15542.8	15171.6	15261.3	11811.7
47.5°	13768.0	13725.2	13841.5	14167.9	14494.3	14922.7	15875.4	15887.6	15442.9	15385.8	12021.8
50°	12537.9	12509.3	12845.9	13464.1	14027.1	14655.4	15791.7	15932.5	15508.2	15347.0	11995.3
52.5°	10036.8	10169.5	10901.8	11934.1	13027.5	14186.2	15481.6	15665.2	15194.0	15092.0	11852.5
55°	6870.8	6932.0	7664.3	9171.9	10905.9	13170.3	14769.7	15053.2	14822.7	15049.2	12001.4
57.5°	3557.8	3606.7	4184.1	5522.3	7397.1	10408.1	12792.9	13723.1	14074.0	15265.4	12464.5
60°	1460.6	1501.4	1740.1	2386.8	3731.2	6060.9	9206.6	10585.6	11409.8	13941.4	11069.1
62.5°	1060.8	1081.2	1195.4	1423.9	1954.3	2970.3	5210.2	5718.1	6297.5	8737.4	7027.8
65°	893.5	916.0	1007.8	1146.5	1426.0	1821.7	2225.7	2237.9	2466.4	3559.8	2605.1
67.5°	748.7	769.1	850.7	969.0	1152.6	1293.4	1195.4	1197.5	1193.4	1291.3	1248.5
70°	583.4	599.8	681.4	807.8	903.7	830.3	934.3	1034.3	991.4	1030.2	1089.4
72.5°	426.4	444.7	516.1	612.0	587.5	591.6	756.8	858.8	834.4	877.2	932.3
75°	308.0	320.3	357.0	306.0	322.3	389.6	532.4	587.5	612.0	648.7	697.7
77.5°	100.0	100.0	112.2	140.8	175.4	216.2	271.3	293.8	330.5	371.3	406.0
80°	51.0	53.0	63.2	77.5	97.9	124.4	159.1	169.3	187.7	210.1	224.4
82.5°	24.5	26.5	30.6	38.8	51.0	65.3	87.7	97.9	110.2	124.4	134.6
85°	6.1	6.1	8.2	12.2	16.3	24.5	32.6	38.8	49.0	59.2	65.3
87.5°	0.0	0.0	0.0	0.0	0.0	2.0	6.1	8.2	10.2	12.2	16.3
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°	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4	3794.4
2.5°	3865.8	3751.6	3604.7	3480.3	3366.0	3278.3	3202.8	3166.1	3131.4	3106.9	3115.1
5°	3971.9	3776.1	3502.7	3313.0	3196.7	3137.5	3096.7	3076.3	3072.3	3055.9	3049.8
7.5°	4126.9	3847.5	3482.3	3290.5	3213.0	3182.4	3160.0	3147.7	3153.9	3137.5	3131.4
10°	4318.7	3965.8	3533.3	3364.0	3296.7	3274.2	3249.7	3233.4	3225.3	3200.8	3196.7
12.5°	4557.4	4112.7	3625.1	3457.8	3390.5	3351.7	3319.1	3290.5	3272.2	3241.6	3233.4
15°	4814.4	4275.9	3733.2	3549.6	3470.1	3412.9	3359.9	3317.1	3284.4	3243.6	3237.5
17.5°	5093.9	4447.2	3823.0	3612.9	3510.9	3435.4	3357.9	3294.6	3249.7	3196.7	3190.6
20°	5385.6	4620.6	3890.3	3643.5	3512.9	3410.9	3306.9	3223.2	3166.1	3113.1	3109.0
22.5°	5687.5	4779.7	3931.1	3635.3	3480.3	3353.8	3229.3	3135.5	3068.2	3004.9	3000.9
25°	5991.5	4932.7	3941.3	3602.7	3415.0	3268.1	3143.7	3033.5	2958.0	2886.6	2878.5
27.5°	6299.6	5061.3	3916.8	3537.4	3327.3	3168.1	3043.7	2935.6	2858.1	2786.7	2774.4
30°	6628.0	5171.4	3863.8	3451.7	3225.3	3062.1	2939.7	2858.1	2784.6	2713.2	2701.0
32.5°	6978.9	5267.3	3788.3	3347.7	3106.9	2956.0	2866.2	2792.8	2719.3	2656.1	2643.9
35°	7397.1	5330.5	3676.1	3213.0	2996.8	2878.5	2817.3	2731.6	2641.8	2572.5	2566.3
37.5°	7829.6	5379.5	3541.5	3084.5	2900.9	2833.6	2782.6	2666.3	2554.1	2470.5	2460.3
40°	8247.8	5420.3	3374.2	2964.1	2813.2	2800.9	2731.6	2586.7	2392.9	2299.1	2290.9
42.5°	8637.4	5432.5	3198.7	2835.6	2733.6	2727.5	2650.0	2425.6	2276.7	2217.5	2209.3
45°	8904.6	5422.3	3017.2	2715.3	2654.1	2621.4	2539.8	2309.3	2217.5	2164.5	2154.3
47.5°	9102.5	5369.3	2813.2	2588.8	2564.3	2519.4	2344.0	2235.9	2150.2	2097.1	2086.9
50°	9067.8	5149.0	2607.1	2466.4	2456.2	2417.4	2201.2	2144.1	2068.6	2011.4	2003.3
52.5°	8888.3	4730.8	2397.0	2331.7	2352.1	2276.7	2099.2	2033.9	1968.6	1903.3	1889.0
55°	8933.2	4428.9	2237.9	2201.2	2237.9	2066.5	1984.9	1915.6	1854.4	1791.1	1778.9
57.5°	9129.0	4131.0	2068.6	2060.4	2099.2	1905.4	1838.0	1750.3	1662.6	1611.6	1611.6
60°	7666.4	3011.1	1770.7	1791.1	1878.8	1774.8	1715.6	1625.9	1530.0	1485.1	1485.1
62.5°	4532.9	1889.0	1468.8	1446.4	1501.4	1566.7	1599.4	1525.9	1411.7	1352.5	1354.6
65°	1997.2	1375.0	1295.4	1277.0	1260.7	1305.6	1395.4	1401.5	1281.1	1211.8	1213.8
67.5°	1230.1	1244.4	1211.8	1197.5	1183.2	1175.0	1166.9	1171.0	1138.3	1075.1	1073.0
70°	1109.8	1148.5	1126.1	1113.8	1095.5	1081.2	1032.2	952.7	897.6	881.3	899.6
72.5°	954.7	1007.8	995.5	989.4	967.0	932.3	867.0	789.5	724.2	683.4	691.6
75°	720.1	763.0	769.1	771.1	746.6	714.0	646.7	581.4	524.3	481.4	491.6
77.5°	414.1	438.6	444.7	450.8	432.5	420.2	375.4	328.4	297.8	253.0	265.2
80°	230.5	240.7	240.7	242.8	232.6	218.3	187.7	161.2	146.9	126.5	128.5
82.5°	138.7	142.8	144.8	146.9	140.8	126.5	104.0	85.7	77.5	67.3	65.3
85°	67.3	71.4	71.4	73.4	63.2	55.1	42.8	32.6	28.6	20.4	22.4
87.5°	16.3	18.4	18.4	16.3	14.3	10.2	6.1	2.0	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)