

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: P640029

Luminaire Tested: GWS-SA5D-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640029
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-SA5D-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: 18448.6 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

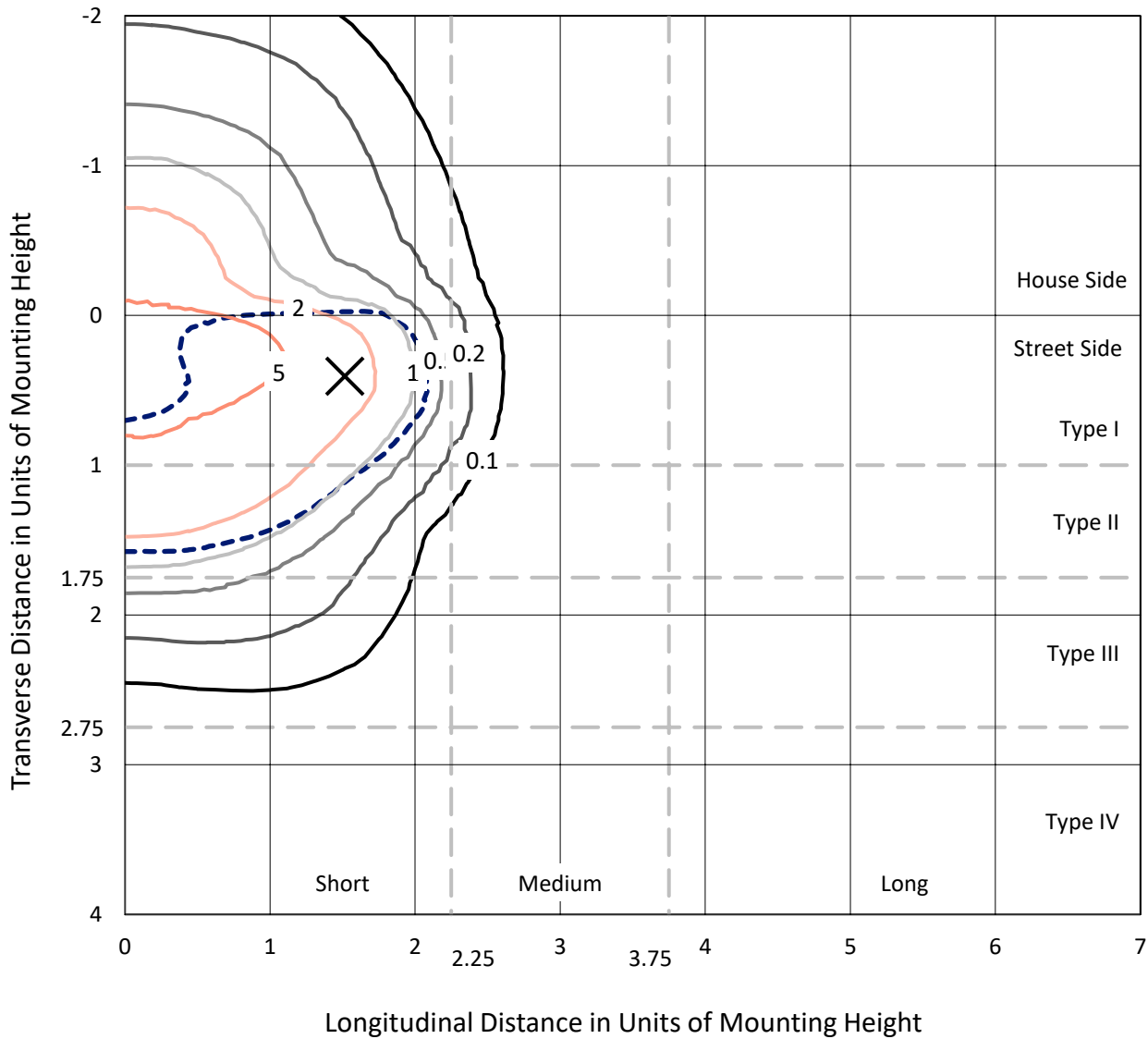
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

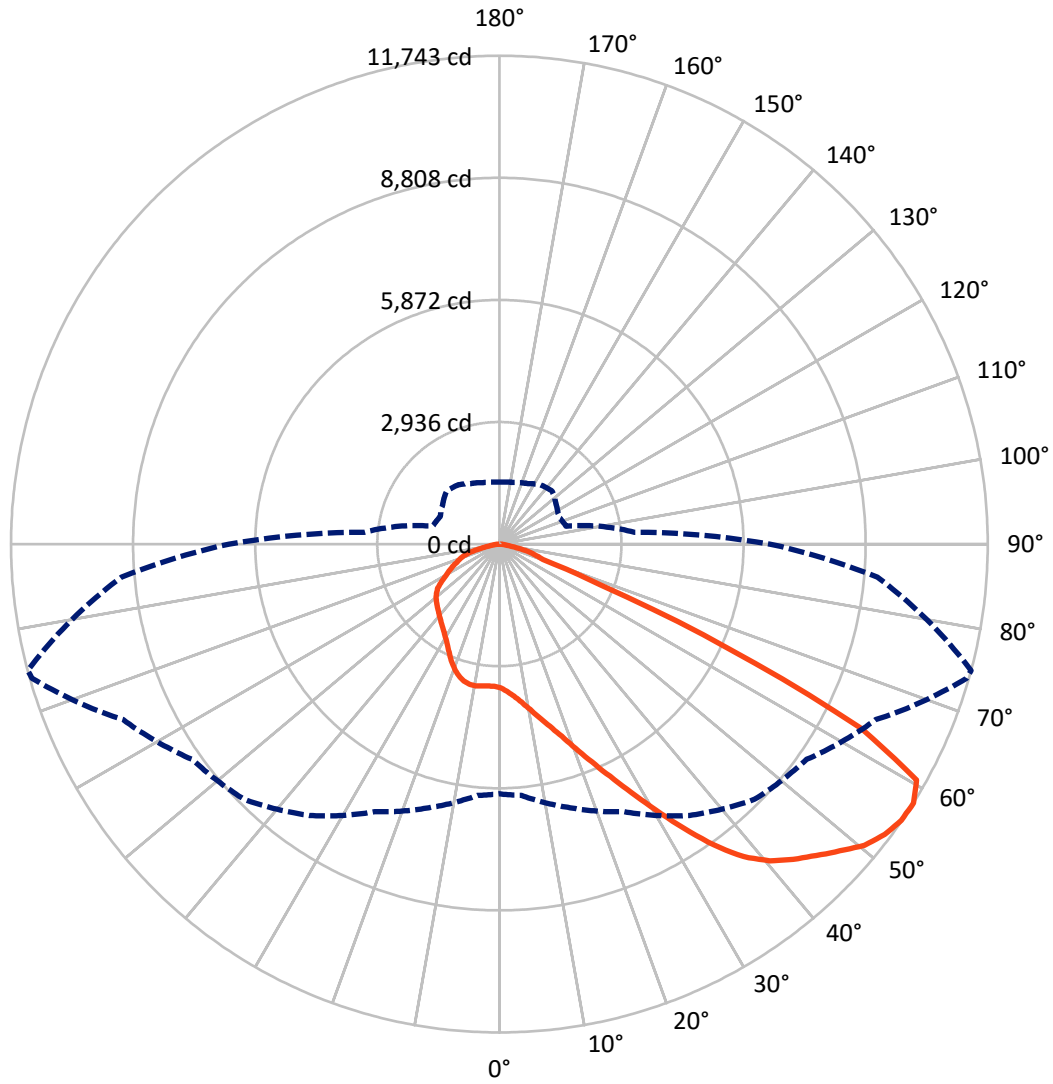
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	4990.7	0.0	4990.7
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	13457.9	0.0	13457.9
	% Fixture	72.9	0.0	72.9
Total	Lumens	18448.6	0.0	18448.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.7	1.9
10°-20°	1100.8	6.0
20°-30°	1952.2	10.6
30°-40°	2988.4	16.2
40°-50°	4161.1	22.6
50°-60°	4767.9	25.8
60°-70°	2449.8	13.3
70°-80°	616.8	3.3
80°-90°	65.9	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°	18448.6	100.0
0°-180°	18448.6	100.0

Coefficient of Utilization



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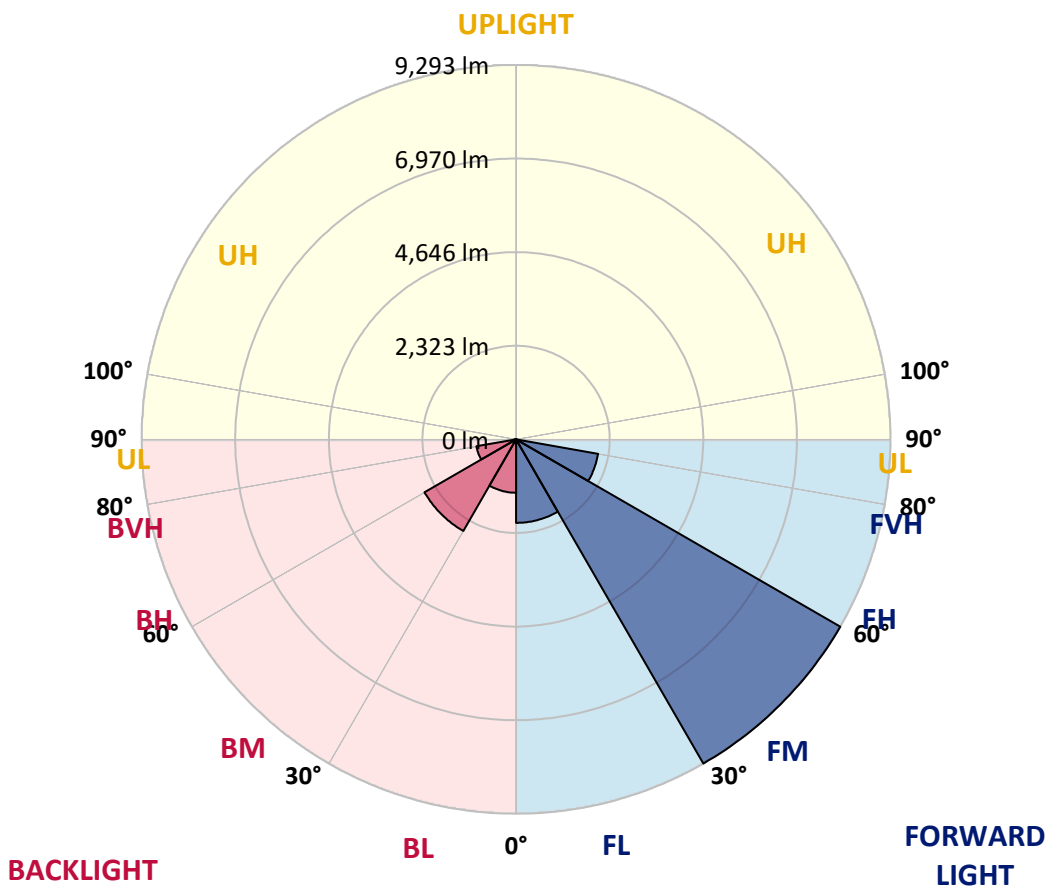
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2072.8	11.2			
FM (30°-60°)	9292.8	50.4			
FH (60°-80°)	2067.9	11.2			G2/5000
FVH (80°-90°)	24.4	0.1			G1/100
BL (0°-30°)	1325.8	7.2	B3/2500		
BM (30°-60°)	2624.7	14.2	B3/5000		
BH (60°-80°)	998.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	41.5	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°	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0
2.5°	3712.0	3721.5	3712.0	3727.8	3696.1	3681.8	3646.9	3594.6	3553.3	3547.0	3501.0
5°	4000.7	4021.3	4008.6	4002.3	3959.4	3927.7	3875.4	3770.7	3685.0	3672.3	3581.9
7.5°	4186.3	4200.5	4200.5	4205.3	4189.4	4153.0	4097.4	3973.7	3853.1	3834.1	3697.7
10°	4248.1	4259.2	4279.9	4319.5	4351.2	4362.3	4325.9	4206.9	4059.4	4040.3	3850.0
12.5°	4262.4	4275.1	4306.8	4379.8	4467.0	4546.4	4552.7	4465.5	4300.5	4279.9	4026.1
15°	4289.4	4302.1	4344.9	4435.3	4563.8	4716.1	4809.7	4749.4	4567.0	4544.8	4225.9
17.5°	4286.2	4300.5	4363.9	4484.5	4657.4	4877.9	5058.7	5084.1	4895.3	4857.3	4452.8
20°	4278.3	4291.0	4359.2	4506.7	4720.9	5023.8	5350.6	5482.3	5279.2	5244.3	4717.7
22.5°	4341.7	4356.0	4408.4	4530.5	4754.2	5136.5	5620.3	5937.6	5734.5	5685.3	5022.3
25°	4484.5	4505.1	4536.8	4620.9	4814.4	5236.4	5896.3	6453.1	6245.3	6186.6	5353.8
27.5°	4705.0	4730.4	4774.8	4814.4	4949.3	5363.3	6170.7	7030.5	6822.7	6760.8	5704.4
30°	4974.7	5008.0	5065.1	5092.1	5184.1	5550.5	6469.0	7625.4	7504.8	7419.2	6099.4
32.5°	5347.4	5393.4	5447.4	5455.3	5510.8	5834.4	6764.0	8215.5	8213.9	8153.6	6548.3
35°	5832.9	5882.0	5893.1	5904.2	5931.2	6224.7	7120.9	8753.3	8961.1	8891.3	7036.9
37.5°	6362.7	6434.1	6451.5	6402.3	6440.4	6694.2	7522.3	9184.7	9611.4	9536.9	7509.6
40°	6929.0	6957.5	7005.1	6927.4	6975.0	7232.0	7915.7	9460.7	10096.9	10017.5	7882.4
42.5°	7335.1	7387.4	7458.8	7430.3	7457.2	7692.0	8191.7	9594.0	10442.7	10363.4	8150.5
45°	7776.1	7791.9	7838.0	7831.6	7847.5	8066.4	8390.0	9652.7	10752.0	10680.6	8378.9
47.5°	8160.0	8183.8	8213.9	8179.0	8144.1	8286.9	8551.8	9703.4	11108.9	11023.3	8618.4
50°	8529.6	8550.2	8586.7	8485.2	8355.1	8391.6	8631.1	9773.2	11443.6	11383.3	8807.2
52.5°	8597.8	8620.0	8791.3	8811.9	8645.4	8516.9	8770.7	9927.1	11640.3	11602.3	8875.4
55°	7739.6	7779.3	8120.3	8512.1	8923.0	8881.7	8994.4	10008.0	11718.1	11727.6	8997.5
57.5°	6007.4	6064.5	6562.6	7100.3	7964.9	8680.3	9022.9	9987.4	11691.1	11743.4	9122.9
60°	3940.4	3973.7	4563.8	5166.6	6062.9	7052.7	8075.9	9616.2	11451.6	11526.1	9091.1
62.5°	2379.5	2417.5	2891.8	3348.7	3876.9	4538.4	5477.5	7728.5	9598.8	9765.3	7281.2
65°	1660.9	1711.6	2127.2	2503.2	2685.6	2549.2	2774.5	4316.3	5980.4	6050.2	4449.6
67.5°	1204.0	1238.9	1580.0	2027.3	2228.8	1800.5	1372.2	1911.5	2604.7	2630.1	1835.4
70°	788.4	828.1	1137.4	1543.5	1819.5	1459.4	1026.3	1034.3	1096.1	1108.8	1066.0
72.5°	433.1	456.9	702.7	1024.8	1075.5	872.5	801.1	859.8	902.6	902.6	913.7
75°	223.7	244.3	287.1	337.9	407.7	477.5	577.4	664.7	710.7	713.8	709.1
77.5°	114.2	122.1	153.9	166.6	182.4	212.6	276.0	353.7	395.0	410.9	407.7
80°	53.9	57.1	65.0	76.1	93.6	119.0	149.1	177.7	203.0	206.2	223.7
82.5°	28.6	31.7	34.9	41.2	50.8	63.5	87.2	104.7	120.6	123.7	138.0
85°	11.1	12.7	14.3	15.9	22.2	27.0	36.5	49.2	60.3	60.3	71.4
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	6.3	7.9	11.1	11.1	19.0
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°	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0
2.5°	3489.9	3443.9	3423.3	3389.9	3363.0	3332.8	3309.0	3291.6	3280.5	3274.1	3267.8
5°	3547.0	3477.2	3421.7	3355.0	3309.0	3264.6	3228.1	3202.8	3190.1	3180.5	3174.2
7.5°	3635.8	3542.2	3437.5	3334.4	3253.5	3182.1	3136.1	3109.2	3091.7	3085.4	3080.6
10°	3758.0	3627.9	3455.0	3291.6	3171.0	3093.3	3061.6	3048.9	3050.5	3047.3	3045.7
12.5°	3896.0	3718.3	3450.2	3215.4	3082.2	3036.2	3037.8	3058.4	3082.2	3088.5	3090.1
15°	4045.1	3807.1	3404.2	3117.1	3012.4	3017.2	3058.4	3107.6	3152.0	3169.4	3172.6
17.5°	4206.9	3881.7	3320.1	3009.2	2955.3	3006.1	3082.2	3163.1	3228.1	3256.7	3264.6
20°	4387.7	3945.1	3201.2	2902.9	2901.4	2985.4	3096.5	3202.8	3285.2	3323.3	3329.7
22.5°	4579.7	3984.8	3055.2	2804.6	2845.8	2958.5	3085.4	3196.4	3283.7	3321.7	3329.7
25°	4773.2	3997.5	2895.0	2714.2	2788.7	2915.6	3031.4	3120.3	3202.8	3236.1	3242.4
27.5°	4954.0	3961.0	2742.7	2636.4	2736.4	2852.2	2929.9	2977.5	3034.6	3060.0	3064.7
30°	5138.1	3888.0	2614.2	2574.6	2677.7	2764.9	2799.8	2803.0	2825.2	2825.2	2828.4
32.5°	5323.7	3780.2	2501.6	2514.3	2604.7	2661.8	2666.6	2630.1	2603.1	2558.7	2557.1
35°	5537.8	3670.7	2409.6	2446.1	2519.1	2554.0	2539.7	2469.9	2404.8	2331.9	2328.7
37.5°	5736.1	3558.1	2331.9	2376.3	2422.3	2447.7	2414.4	2330.3	2276.4	2201.8	2190.7
40°	5899.5	3456.6	2257.3	2303.3	2325.5	2347.7	2293.8	2225.6	2233.5	2192.3	2190.7
42.5°	5994.7	3358.2	2187.5	2222.4	2236.7	2252.6	2205.0	2154.2	2197.0	2165.3	2166.9
45°	6064.5	3272.6	2124.1	2136.8	2171.7	2195.5	2151.0	2093.9	2103.4	1981.3	1952.7
47.5°	6143.8	3225.0	2063.8	2051.1	2113.0	2154.2	2086.0	2003.5	1946.4	1825.8	1814.7
50°	6227.8	3207.5	2000.3	1965.4	2040.0	2079.7	2000.3	1897.2	1822.7	1757.6	1751.3
52.5°	6256.4	3205.9	1921.0	1862.3	1936.9	1992.4	1925.8	1821.1	1732.2	1668.8	1665.6
55°	6369.0	3251.9	1819.5	1721.1	1790.9	1905.2	1856.0	1705.3	1633.9	1605.3	1602.2
57.5°	6500.7	3259.9	1659.3	1567.3	1664.0	1798.9	1737.0	1606.9	1529.2	1494.3	1491.1
60°	6446.8	3064.7	1488.0	1449.9	1556.2	1698.9	1641.8	1529.2	1438.8	1405.5	1402.3
62.5°	4912.8	2163.7	1362.6	1348.4	1440.4	1554.6	1543.5	1426.1	1340.4	1316.6	1313.5
65°	2955.3	1519.7	1242.1	1240.5	1305.5	1415.0	1429.3	1334.1	1243.7	1210.4	1210.4
67.5°	1461.0	1162.8	1105.7	1097.7	1139.0	1216.7	1277.0	1199.2	1123.1	1091.4	1086.6
70°	1032.7	1024.8	1005.7	983.5	991.4	1023.2	1048.5	983.5	902.6	870.9	864.5
72.5°	893.1	894.7	882.0	864.5	858.2	836.0	813.8	766.2	717.0	683.7	686.9
75°	693.2	696.4	704.3	698.0	680.5	656.7	632.9	572.7	533.0	501.3	494.9
77.5°	404.5	420.4	445.8	439.4	442.6	409.3	399.7	341.1	304.6	282.4	277.6
80°	228.4	237.9	249.1	257.0	247.5	233.2	212.6	180.8	169.7	153.9	150.7
82.5°	138.0	147.5	152.3	158.6	155.5	136.4	120.6	99.9	90.4	82.5	80.9
85°	69.8	76.1	80.9	84.1	74.6	61.9	55.5	44.4	38.1	33.3	33.3
87.5°	17.4	19.0	22.2	19.0	17.4	7.9	6.3	1.6	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)