

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: P640253

Luminaire Tested: GWS-SA5D-740-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640253
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26439.1 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

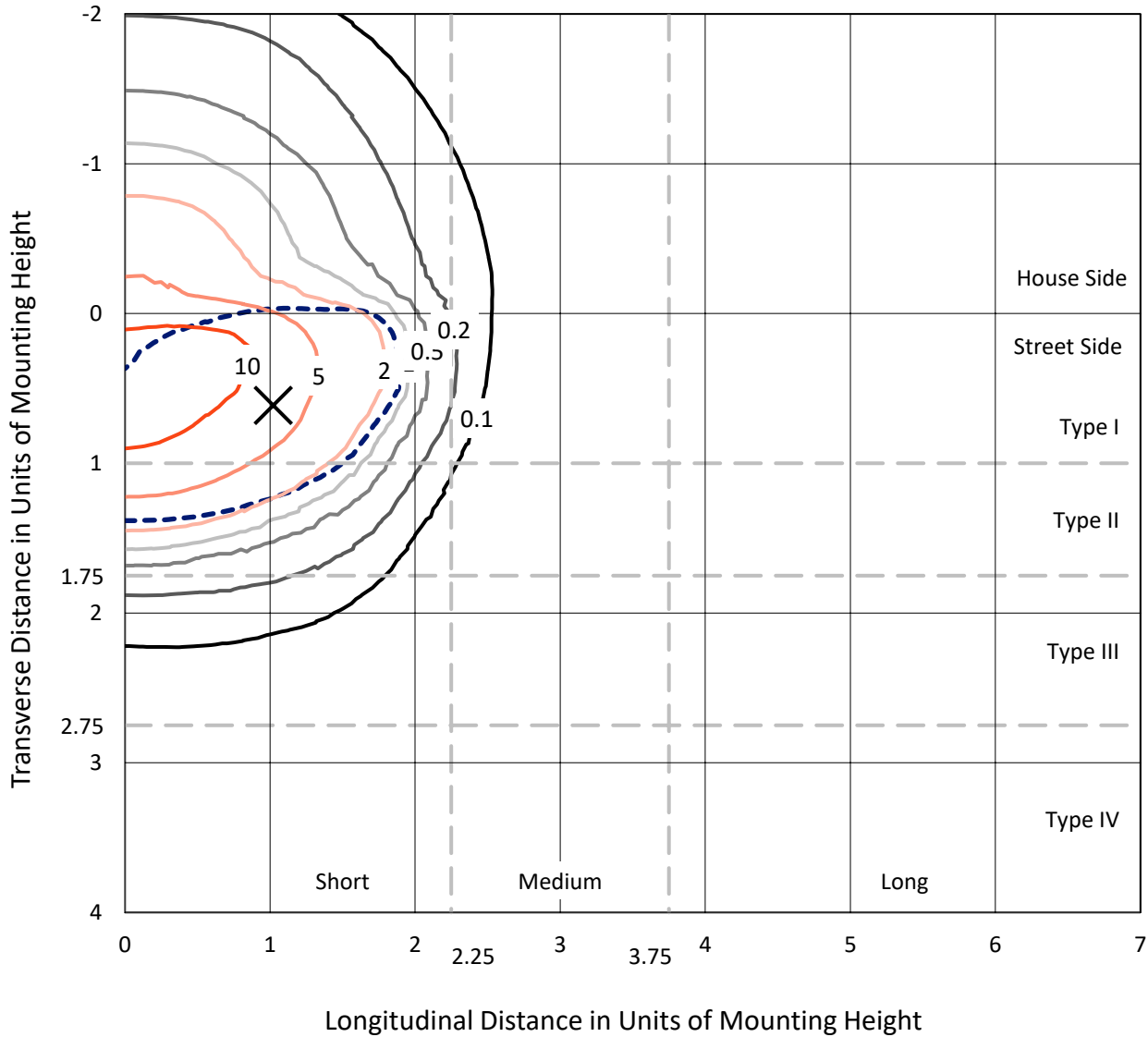
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

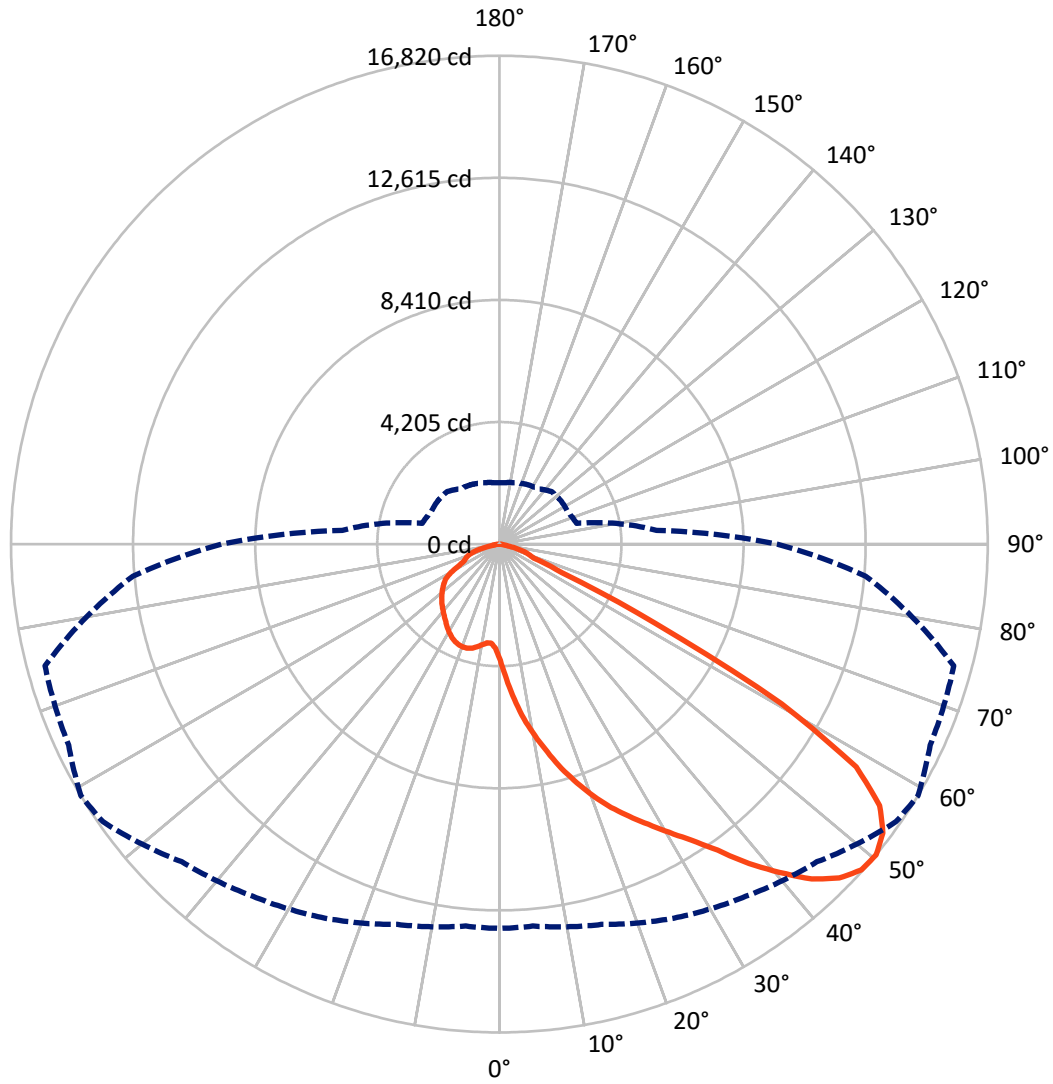
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	6081.5	0.0	6081.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	20357.6	0.0	20357.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	26439.1	0.0	26439.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.4	1.7
10°-20°	1631.3	6.2
20°-30°	3089.0	11.7
30°-40°	5122.6	19.4
40°-50°	6997.7	26.5
50°-60°	6352.1	24.0
60°-70°	2115.3	8.0
70°-80°	617.0	2.3
80°-90°	64.8	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°	26439.1	100.0
0°-180°	26439.1	100.0

Coefficient of Utilization



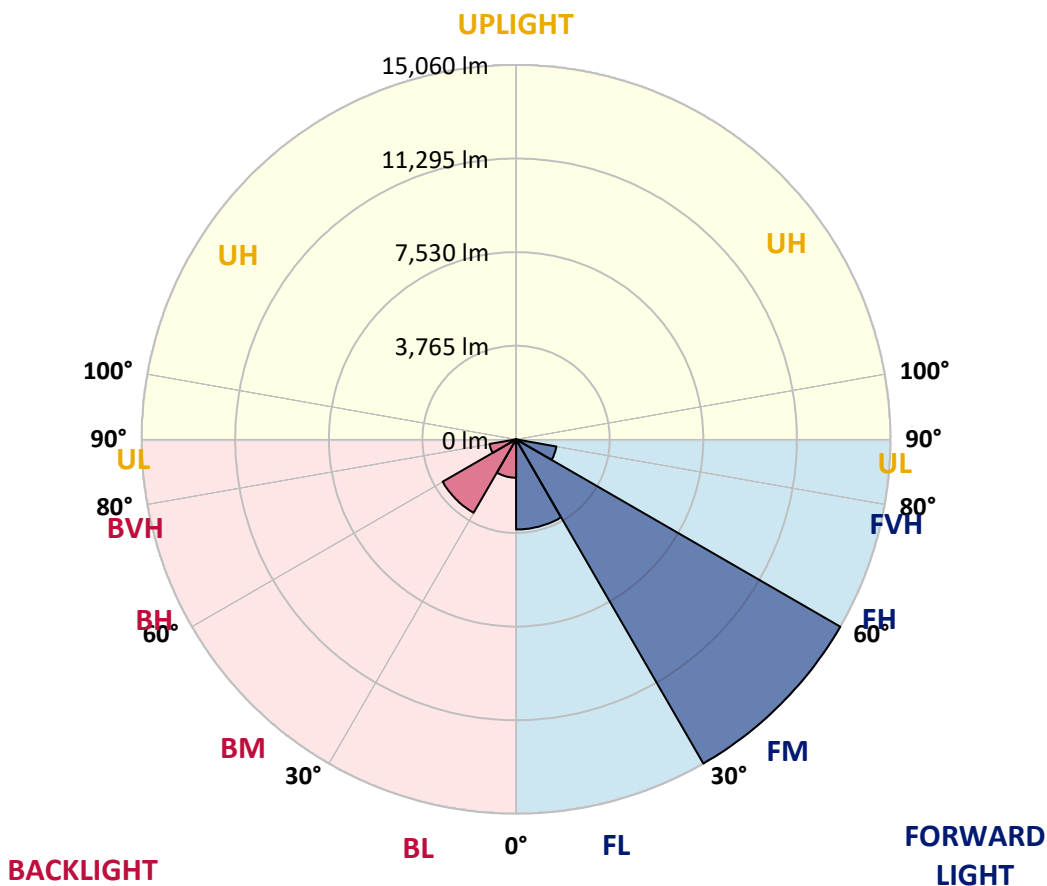
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3625.4	13.7			
FM (30°-60°)	15060.0	57.0			
FH (60°-80°)	1646.8	6.2			G1/1800
FVH (80°-90°)	25.3	0.1			G1/100
BL (0°-30°)	1544.2	5.8	B3/2500		
BM (30°-60°)	3412.3	12.9	B3/5000		
BH (60°-80°)	1085.5	4.1	B3/2500		G3/2500
BVH (80°-90°)	39.5	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°	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7
2.5°	5190.2	5229.0	5168.7	5173.0	5022.2	4953.3	4759.5	4645.3	4570.0	4358.9	4167.2
5°	6236.8	6191.6	6144.2	6116.2	5984.9	5799.7	5558.5	5366.8	5190.2	4776.7	4378.3
7.5°	6878.6	6854.9	6822.6	6805.4	6676.2	6482.4	6241.2	6077.5	5821.2	5261.3	4634.6
10°	7423.5	7395.5	7376.1	7389.0	7283.5	7158.6	6895.9	6708.5	6419.9	5773.8	4944.7
12.5°	7845.6	7860.7	7867.1	7936.0	7890.8	7815.4	7544.1	7346.0	7025.1	6314.4	5308.6
15°	8179.4	8175.1	8250.5	8381.8	8455.1	8407.7	8190.2	8024.3	7632.4	6846.3	5700.6
17.5°	8256.9	8261.2	8379.7	8610.1	8849.2	8965.5	8842.7	8644.6	8256.9	7371.8	6107.6
20°	8319.4	8328.0	8450.8	8713.5	9062.4	9387.6	9407.0	9264.8	8931.0	7940.4	6521.1
22.5°	8713.5	8732.9	8765.2	8931.0	9245.4	9656.8	9882.9	9852.8	9572.8	8536.9	6966.9
25°	9749.4	9691.2	9534.0	9486.6	9607.2	9941.1	10326.5	10384.7	10246.9	9193.8	7447.2
27.5°	11028.6	10966.2	10733.6	10488.1	10227.5	10343.8	10755.1	10929.6	10931.7	9917.4	7929.6
30°	12189.4	12139.9	11950.4	11599.3	11149.2	10981.2	11284.9	11519.6	11659.6	10753.0	8478.8
32.5°	13182.2	13137.0	12880.7	12594.3	12155.0	11816.8	11926.7	12152.8	12480.2	11834.1	9161.4
35°	14017.8	13972.6	13727.1	13438.5	13031.5	12829.0	12790.3	12945.3	13369.6	12962.6	9945.4
37.5°	14696.2	14651.0	14394.7	14123.4	13813.2	13826.2	13884.3	13959.7	14203.0	14170.7	10783.1
40°	15135.6	15088.2	14905.1	14711.3	14515.3	14670.4	14959.0	14868.5	14997.7	15146.3	11554.1
42.5°	15331.5	15271.2	15165.7	15122.6	15062.3	15303.5	15859.2	15768.7	15613.7	15796.7	12127.0
45°	15135.6	15083.9	15081.7	15213.1	15353.1	15663.2	16481.6	16408.3	16016.4	16111.1	12469.4
47.5°	14534.7	14489.5	14612.2	14956.8	15301.4	15753.6	16759.4	16772.3	16302.8	16242.5	12691.2
50°	13236.1	13205.9	13561.3	14213.8	14808.2	15471.5	16671.1	16819.7	16371.7	16201.6	12663.2
52.5°	10595.8	10735.7	11508.9	12598.6	13752.9	14976.2	16343.7	16537.6	16040.1	15932.4	12512.5
55°	7253.4	7318.0	8091.1	9682.6	11513.2	13903.7	15592.1	15891.5	15648.1	15887.2	12669.7
57.5°	3755.9	3807.6	4417.0	5829.8	7809.0	10987.7	13505.3	14487.3	14857.7	16115.4	13158.5
60°	1542.0	1585.1	1837.0	2519.7	3938.9	6398.4	9719.2	11175.1	12045.1	14717.8	11685.5
62.5°	1119.9	1141.4	1262.0	1503.2	2063.2	3135.7	5500.3	6036.6	6648.2	9223.9	7419.2
65°	943.3	967.0	1063.9	1210.3	1505.4	1923.2	2349.6	2362.5	2603.7	3758.0	2750.2
67.5°	790.4	811.9	898.1	1023.0	1216.8	1365.4	1262.0	1264.2	1259.9	1363.2	1318.0
70°	615.9	633.2	719.3	852.8	954.0	876.5	986.4	1091.9	1046.7	1087.6	1150.0
72.5°	450.1	469.5	544.9	646.1	620.2	624.5	799.0	906.7	880.8	926.1	984.2
75°	325.2	338.1	376.9	323.0	340.3	411.3	562.1	620.2	646.1	684.8	736.5
77.5°	105.5	105.5	118.4	148.6	185.2	228.3	286.4	310.1	348.9	392.0	428.6
80°	53.8	56.0	66.8	81.8	103.4	131.4	168.0	178.7	198.1	221.8	236.9
82.5°	25.8	28.0	32.3	40.9	53.8	68.9	92.6	103.4	116.3	131.4	142.1
85°	6.5	6.5	8.6	12.9	17.2	25.8	34.5	40.9	51.7	62.5	68.9
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	6.5	8.6	10.8	12.9	17.2
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°	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7	4005.7
2.5°	4081.1	3960.5	3805.4	3674.1	3553.5	3460.8	3381.2	3342.4	3305.8	3279.9	3288.6
5°	4193.1	3986.3	3697.7	3497.5	3374.7	3312.2	3269.2	3247.6	3243.3	3226.1	3219.6
7.5°	4356.7	4061.7	3676.2	3473.8	3391.9	3359.6	3335.9	3323.0	3329.5	3312.2	3305.8
10°	4559.2	4186.6	3730.0	3551.3	3480.2	3456.5	3430.7	3413.5	3404.9	3379.0	3374.7
12.5°	4811.2	4341.7	3827.0	3650.4	3579.3	3538.4	3503.9	3473.8	3454.4	3422.1	3413.5
15°	5082.5	4514.0	3941.1	3747.3	3663.3	3603.0	3547.0	3501.8	3467.3	3424.2	3417.8
17.5°	5377.6	4694.9	4035.9	3814.0	3706.4	3626.7	3544.8	3478.1	3430.7	3374.7	3368.2
20°	5685.5	4877.9	4106.9	3846.3	3708.5	3600.8	3491.0	3402.7	3342.4	3286.4	3282.1
22.5°	6004.3	5045.9	4150.0	3837.7	3674.1	3540.5	3409.2	3310.1	3239.0	3172.3	3168.0
25°	6325.1	5207.4	4160.8	3803.3	3605.1	3450.1	3318.7	3202.4	3122.7	3047.4	3038.7
27.5°	6650.3	5343.1	4134.9	3734.4	3512.5	3344.6	3213.2	3099.0	3017.2	2941.8	2928.9
30°	6997.1	5459.4	4078.9	3643.9	3404.9	3232.6	3103.3	3017.2	2939.7	2864.3	2851.4
32.5°	7367.5	5560.6	3999.2	3534.1	3279.9	3120.6	3025.8	2948.3	2870.8	2804.0	2791.1
35°	7809.0	5627.4	3880.8	3391.9	3163.6	3038.7	2974.1	2883.7	2788.9	2715.7	2709.2
37.5°	8265.5	5679.1	3738.7	3256.3	3062.4	2991.4	2937.5	2814.8	2696.3	2608.0	2597.3
40°	8707.0	5722.1	3562.1	3129.2	2969.8	2956.9	2883.7	2730.8	2526.2	2427.1	2418.5
42.5°	9118.4	5735.1	3376.9	2993.5	2885.8	2879.4	2797.5	2560.6	2403.4	2341.0	2332.4
45°	9400.5	5724.3	3185.2	2866.5	2801.8	2767.4	2681.2	2437.9	2341.0	2285.0	2274.2
47.5°	9609.4	5668.3	2969.8	2732.9	2707.1	2659.7	2474.5	2360.4	2269.9	2213.9	2203.1
50°	9572.8	5435.7	2752.3	2603.7	2592.9	2552.0	2323.7	2263.4	2183.8	2123.5	2114.8
52.5°	9383.3	4994.2	2530.5	2461.6	2483.1	2403.4	2216.1	2147.1	2078.2	2009.3	1994.2
55°	9430.6	4675.5	2362.5	2323.7	2362.5	2181.6	2095.5	2022.2	1957.6	1890.9	1877.9
57.5°	9637.4	4361.1	2183.8	2175.1	2216.1	2011.5	1940.4	1847.8	1755.2	1701.4	1701.4
60°	8093.3	3178.7	1869.3	1890.9	1983.5	1873.6	1811.2	1716.4	1615.2	1567.8	1567.8
62.5°	4785.3	1994.2	1550.6	1526.9	1585.1	1654.0	1688.4	1610.9	1490.3	1427.8	1430.0
65°	2108.4	1451.5	1367.5	1348.2	1330.9	1378.3	1473.1	1479.5	1352.5	1279.2	1281.4
67.5°	1298.6	1313.7	1279.2	1264.2	1249.1	1240.5	1231.9	1236.2	1201.7	1135.0	1132.8
70°	1171.6	1212.5	1188.8	1175.9	1156.5	1141.4	1089.7	1005.7	947.6	930.4	949.7
72.5°	1007.9	1063.9	1051.0	1044.5	1020.8	984.2	915.3	833.4	764.5	721.5	730.1
75°	760.2	805.4	811.9	814.1	788.2	753.8	682.7	613.8	553.5	508.3	519.0
77.5°	437.2	463.0	469.5	475.9	456.6	443.6	396.3	346.7	314.4	267.0	280.0
80°	243.4	254.1	254.1	256.3	245.5	230.4	198.1	170.1	155.1	133.5	135.7
82.5°	146.4	150.8	152.9	155.1	148.6	133.5	109.8	90.5	81.8	71.1	68.9
85°	71.1	75.4	75.4	77.5	66.8	58.1	45.2	34.5	30.2	21.5	23.7
87.5°	17.2	19.4	19.4	17.2	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)