

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: P642643

Luminaire Tested: GWS-SA6D-735-U-AFL-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-AFL-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32052.1 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

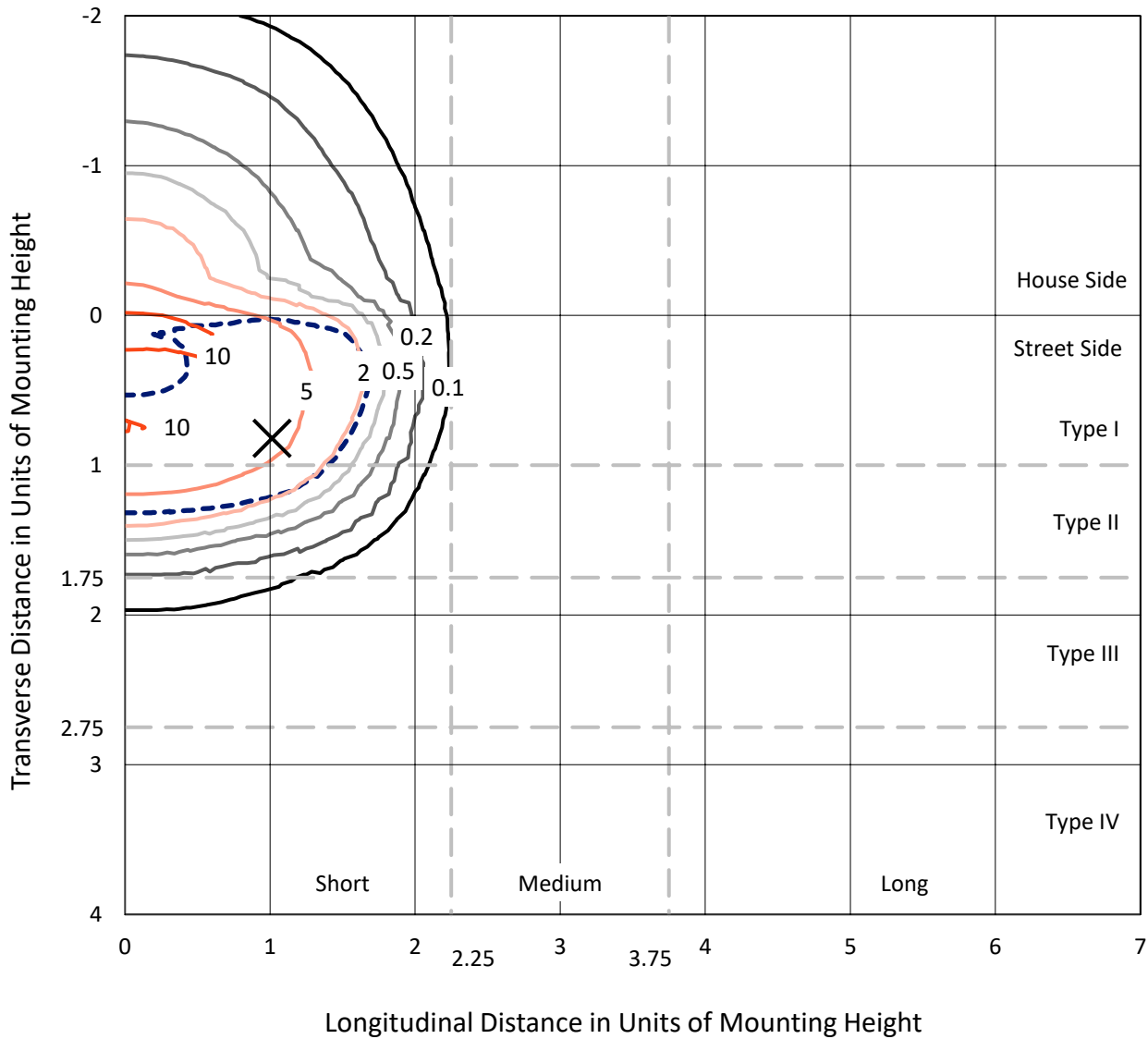
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

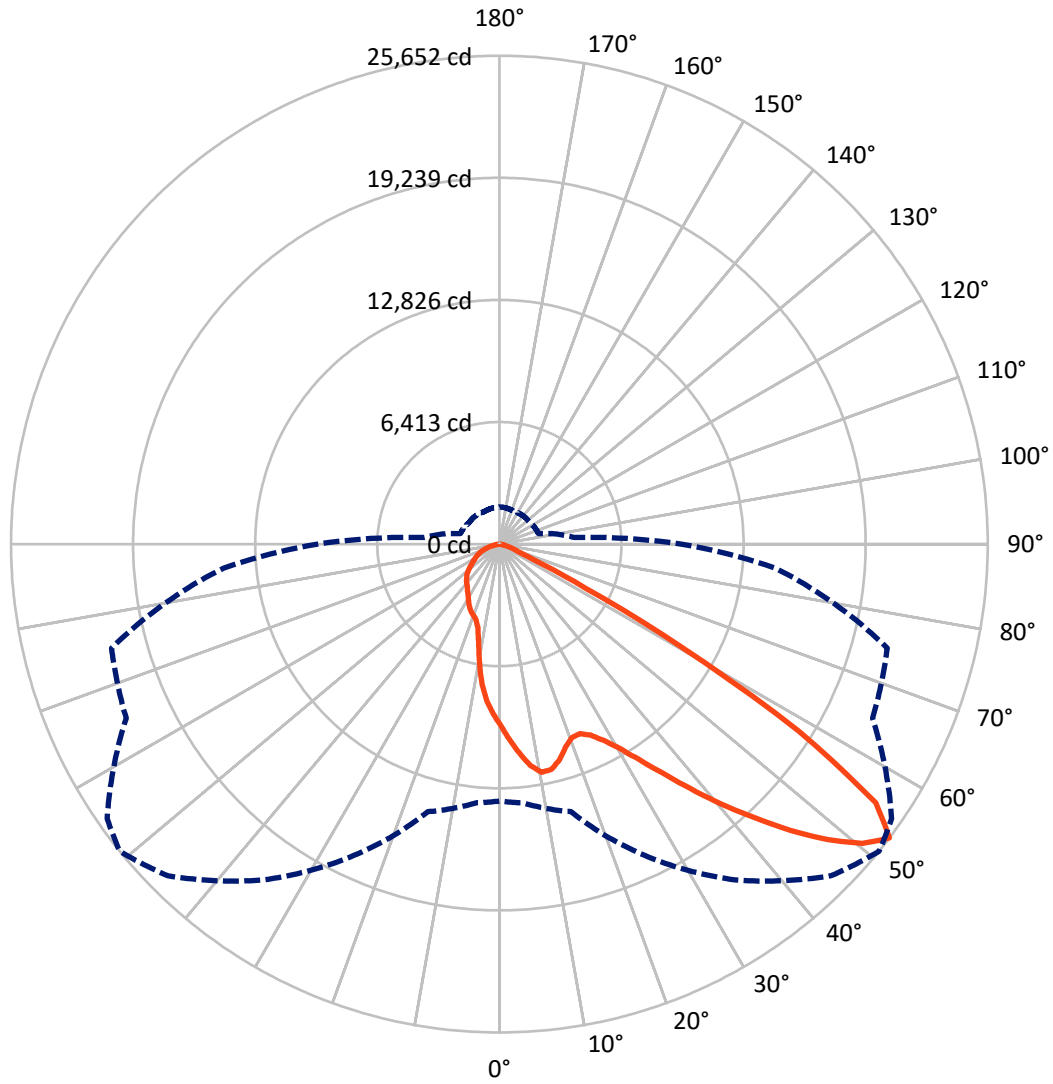
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6245.1	0.0	6245.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	25807.0	0.0	25807.0
	% Fixture	80.5	0.0	80.5
Total	Lumens	32052.1	0.0	32052.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	890.5	2.8
10°-20°	2314.0	7.2
20°-30°	3762.3	11.7
30°-40°	5962.5	18.6
40°-50°	8992.7	28.1
50°-60°	7779.4	24.3
60°-70°	1763.7	5.5
70°-80°	520.0	1.6
80°-90°	67.0	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°	32052.1	100.0
0°-180°	32052.1	100.0

Coefficient of Utilization



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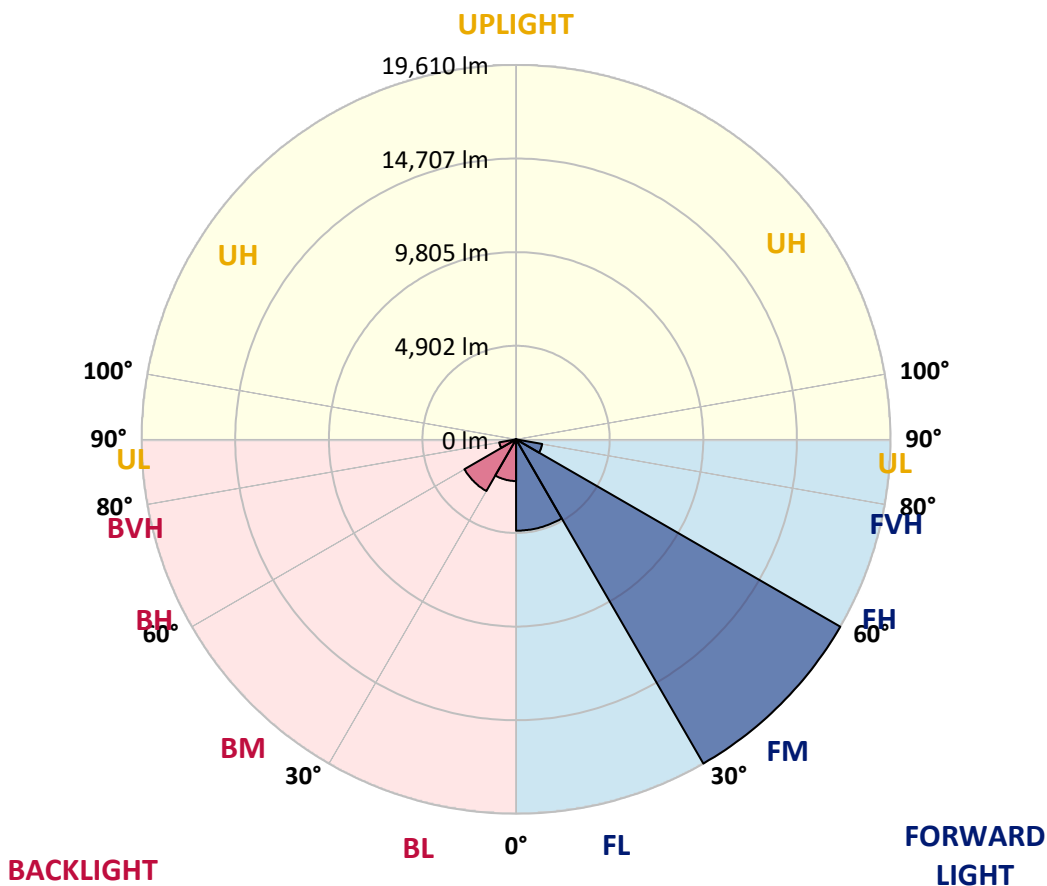
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4783.9	14.9			
FM (30°-60°)	19609.9	61.2			
FH (60°-80°)	1388.0	4.3			G1/1800
FVH (80°-90°)	25.2	0.1			G1/100
BL (0°-30°)	2183.0	6.8	B3/2500		
BM (30°-60°)	3124.6	9.7	B3/5000		
BH (60°-80°)	895.7	2.8	B2/1000		G2/1000
BVH (80°-90°)	41.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5
2.5°	10635.1	10695.9	10602.2	10566.8	10508.5	10407.2	10290.7	10257.8	10007.0	9842.4	9657.5
5°	11704.0	11736.9	11660.9	11584.9	11440.6	11260.7	11035.3	10987.2	10531.3	10153.9	9761.3
7.5°	11942.1	11929.4	11995.2	12038.3	12020.6	11949.6	11749.6	11655.8	11111.3	10513.6	9933.6
10°	10999.9	10928.9	11172.1	11460.8	11807.8	12208.0	12185.2	12177.6	11704.0	10997.3	10153.9
12.5°	9751.2	9715.7	9913.3	10275.5	10931.5	11817.9	12149.7	12408.1	12238.4	11458.3	10399.6
15°	9037.0	9024.3	9158.5	9419.4	9941.2	11060.6	11769.8	12281.4	12696.8	11952.2	10660.5
17.5°	8907.8	8915.4	8961.0	9110.4	9485.3	10407.2	11227.8	11942.1	13053.9	12494.2	10987.2
20°	9285.2	9335.8	9257.3	9280.1	9482.7	10171.6	10858.0	11600.1	13281.9	13038.7	11339.2
22.5°	10123.5	10105.8	9933.6	9832.2	9834.8	10316.0	10817.5	11440.6	13431.3	13568.1	11658.4
25°	11073.3	11053.0	10847.9	10622.5	10480.6	10708.6	11108.8	11610.3	13565.6	14051.9	11914.2
27.5°	12195.3	12132.0	11904.1	11615.3	11301.3	11400.0	11671.0	12068.7	13773.2	14528.0	12083.9
30°	13281.9	13355.3	13028.6	12686.7	12354.9	12294.1	12451.1	12810.8	14196.2	15085.2	12286.5
32.5°	14723.0	14697.7	14335.5	13889.8	13416.1	13370.5	13494.6	13823.9	14956.1	15855.2	12595.5
35°	16468.1	16473.2	15959.0	15356.2	14682.5	14560.9	14768.6	15087.8	16088.2	16898.7	13084.3
37.5°	18281.6	18274.0	17825.7	17141.8	16222.4	16050.2	16288.3	16526.4	17504.0	18319.6	13844.2
40°	19553.0	19603.7	19393.5	19033.8	18162.6	17742.1	17952.3	18117.0	19044.0	19991.2	14844.6
42.5°	20274.9	20350.9	20396.5	20611.8	20153.3	19705.0	19629.0	19715.1	20419.3	21543.8	15784.3
45°	20429.4	20530.7	20862.5	21660.3	21837.6	21711.0	21462.8	21255.1	21445.0	22645.6	16399.7
47.5°	19748.1	19925.4	20634.5	22030.1	23066.0	23463.7	23187.6	22871.0	22037.7	22929.2	16336.4
50°	17048.1	17255.8	18854.0	21275.3	23240.8	24689.5	24714.9	24246.3	21966.8	22111.2	15541.1
52.5°	13497.2	13639.0	14553.3	18035.9	21526.1	24638.9	25652.0	25150.5	21624.9	21087.9	14545.7
55°	8066.9	8294.8	9148.4	11899.0	16769.5	21837.6	23995.5	24238.7	21457.7	20229.3	13867.0
57.5°	2722.7	2834.2	3649.7	5255.5	9882.9	15989.4	18539.9	19527.7	19479.6	18917.3	12542.3
60°	1296.8	1322.1	1486.7	1993.3	3956.2	8355.6	10974.5	12114.3	13152.7	13256.6	7803.5
62.5°	987.8	1003.0	1086.6	1195.5	1590.6	3520.6	5030.1	5901.4	6304.1	5410.0	2841.8
65°	825.7	838.3	901.7	970.1	1081.5	1524.7	1930.0	2226.3	2006.0	1562.7	1355.0
67.5°	688.9	699.0	747.2	820.6	896.6	1020.7	1071.4	1101.8	1154.9	1296.8	1246.1
70°	539.5	549.6	600.3	663.6	737.0	767.4	815.6	845.9	952.3	1134.7	1129.6
72.5°	415.4	428.0	455.9	496.4	557.2	587.6	640.8	676.3	737.0	883.9	944.7
75°	303.9	311.5	336.9	349.5	357.1	349.5	402.7	443.2	524.3	580.0	595.2
77.5°	124.1	139.3	134.2	134.2	159.6	192.5	220.4	245.7	301.4	334.3	336.9
80°	50.7	55.7	65.9	73.5	88.6	114.0	131.7	141.8	167.2	187.4	202.6
82.5°	30.4	32.9	38.0	40.5	50.7	65.9	76.0	83.6	103.8	124.1	131.7
85°	15.2	15.2	17.7	20.3	25.3	30.4	35.5	40.5	53.2	65.9	73.5
87.5°	2.5	2.5	2.5	5.1	7.6	10.1	12.7	15.2	17.7	20.3	25.3
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°	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5	9543.5
2.5°	9548.6	9411.8	9252.2	9125.6	8978.7	8869.8	8715.3	8619.0	8527.9	8451.9	8396.2
5°	9558.7	9328.2	8996.4	8702.6	8398.7	8110.0	7813.6	7573.0	7357.7	7177.9	7162.7
7.5°	9617.0	9285.2	8765.9	8251.8	7659.1	7086.7	6514.3	6048.3	5693.7	5508.8	5470.8
10°	9715.7	9280.1	8530.4	7709.8	6699.2	5777.3	5098.5	4743.9	4538.7	4465.3	4440.0
12.5°	9819.6	9267.4	8229.0	6944.9	5541.7	4733.8	4361.4	4318.4	4356.4	4361.4	4358.9
15°	9946.2	9259.8	7849.1	6048.3	4695.8	4250.0	4275.3	4366.5	4455.2	4475.4	4475.4
17.5°	10100.7	9242.1	7332.4	5171.9	4166.4	4156.3	4290.5	4412.1	4495.7	4510.9	4510.9
20°	10262.8	9196.5	6696.7	4457.7	3951.1	4098.0	4242.4	4336.1	4394.4	4414.6	4417.2
22.5°	10374.3	9074.9	5964.7	3928.3	3816.9	3986.6	4090.4	4186.7	4186.7	4136.0	4120.8
25°	10397.1	8814.1	5171.9	3566.2	3657.3	3814.4	3920.7	3865.0	3761.2	3720.7	3718.1
27.5°	10313.5	8434.2	4389.3	3307.8	3464.8	3621.9	3604.1	3523.1	3477.5	3437.0	3452.2
30°	10212.2	7978.3	3710.5	3095.1	3242.0	3396.5	3335.7	3307.8	3274.9	3229.3	3239.4
32.5°	10143.8	7469.2	3188.8	2930.4	3092.5	3117.9	3160.9	3158.4	3128.0	3041.9	3036.8
35°	10164.0	6955.0	2839.2	2796.2	2968.4	2958.3	3039.3	3024.1	2813.9	2694.9	2687.3
37.5°	10326.1	6461.1	2634.1	2689.8	2770.9	2834.2	2905.1	2722.7	2649.3	2573.3	2578.4
40°	10635.1	6002.7	2522.6	2631.6	2651.8	2745.5	2580.9	2578.4	2545.4	2477.1	2474.5
42.5°	10984.7	5615.2	2446.7	2603.7	2575.8	2593.6	2418.8	2439.1	2436.5	2393.5	2380.8
45°	11197.4	5258.0	2385.9	2499.9	2507.5	2330.2	2277.0	2299.8	2312.4	2289.6	2287.1
47.5°	10977.1	4847.7	2322.6	2340.3	2406.1	2211.1	2145.3	2147.8	2170.6	2173.1	2163.0
50°	10359.1	4389.3	2246.6	2203.5	2160.5	2087.0	2026.2	2013.6	2036.4	2059.1	2066.7
52.5°	9561.2	3951.1	2119.9	2054.1	1952.8	1952.8	1924.9	1884.4	1914.8	1945.2	1955.3
55°	8976.2	3626.9	1940.1	1866.7	1755.2	1793.2	1788.1	1752.7	1793.2	1816.0	1823.6
57.5°	7778.2	2915.2	1707.1	1684.3	1590.6	1636.2	1646.3	1600.7	1580.5	1585.5	1593.1
60°	4617.3	1881.9	1539.9	1537.4	1453.8	1507.0	1537.4	1491.8	1431.0	1438.6	1448.7
62.5°	2071.8	1438.6	1329.7	1319.6	1317.0	1385.4	1418.4	1375.3	1289.2	1296.8	1306.9
65°	1304.4	1243.6	1154.9	1154.9	1195.5	1253.7	1279.1	1243.6	1144.8	1132.2	1142.3
67.5°	1210.7	1157.5	1066.3	1048.6	1068.8	1117.0	1119.5	1051.1	992.8	982.7	982.7
70°	1086.6	1046.0	957.4	921.9	914.3	911.8	904.2	886.5	848.5	838.3	843.4
72.5°	899.1	871.3	815.6	777.6	757.3	754.8	724.4	709.2	676.3	671.2	668.7
75°	595.2	602.8	602.8	597.7	580.0	572.4	539.5	524.3	486.3	471.1	468.6
77.5°	352.1	359.7	369.8	372.3	369.8	369.8	339.4	321.7	283.7	263.4	258.3
80°	215.3	220.4	225.4	233.0	222.9	215.3	187.4	169.7	152.0	139.3	136.8
82.5°	139.3	144.4	146.9	152.0	146.9	136.8	114.0	103.8	91.2	81.0	78.5
85°	78.5	81.0	86.1	86.1	78.5	70.9	58.3	50.7	43.1	38.0	38.0
87.5°	27.9	27.9	27.9	30.4	25.3	22.8	15.2	10.1	7.6	7.6	7.6
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)