

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: P632744

Luminaire Tested: GWS-SA2D-735-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-735-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9657.3 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

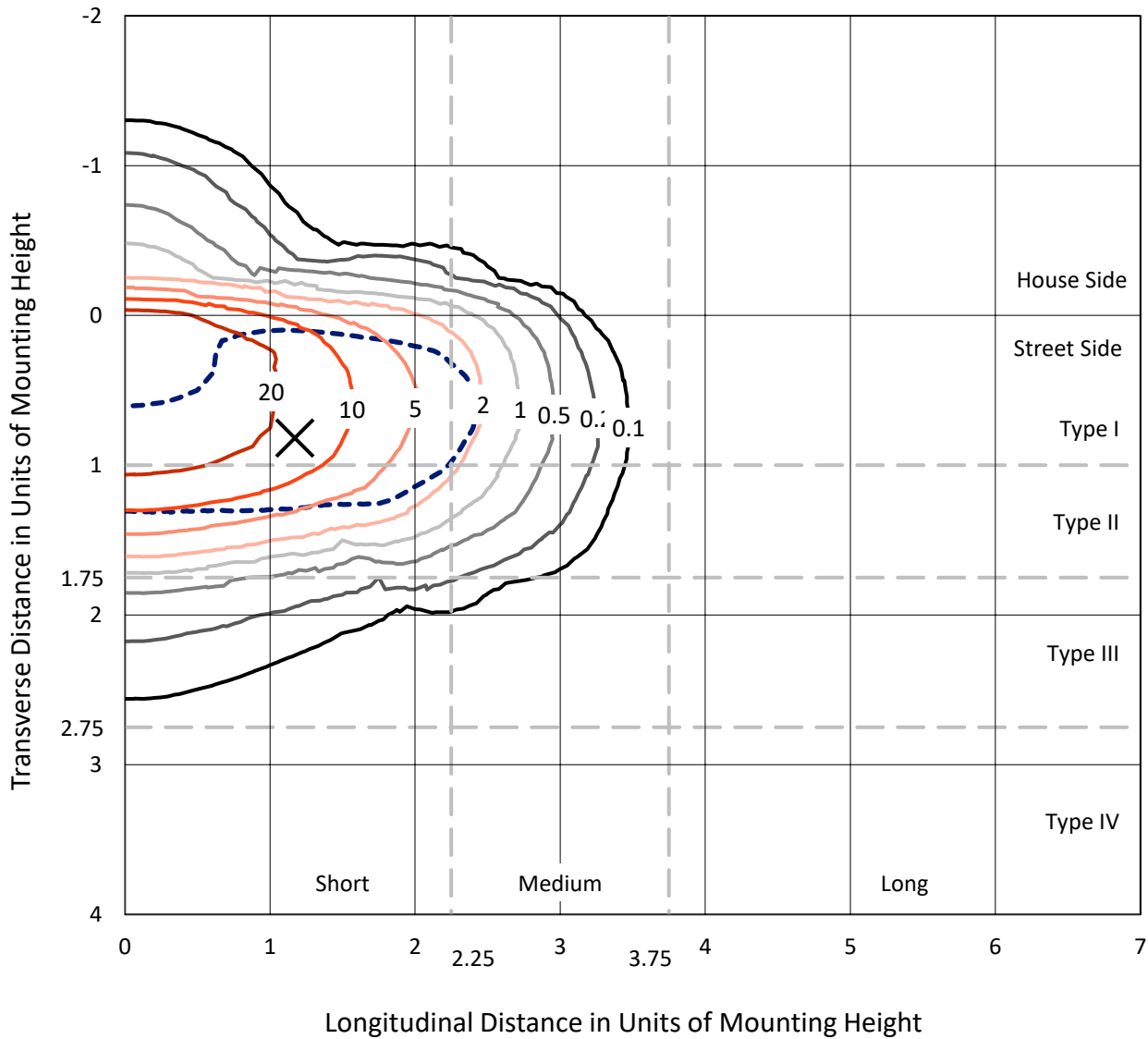
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

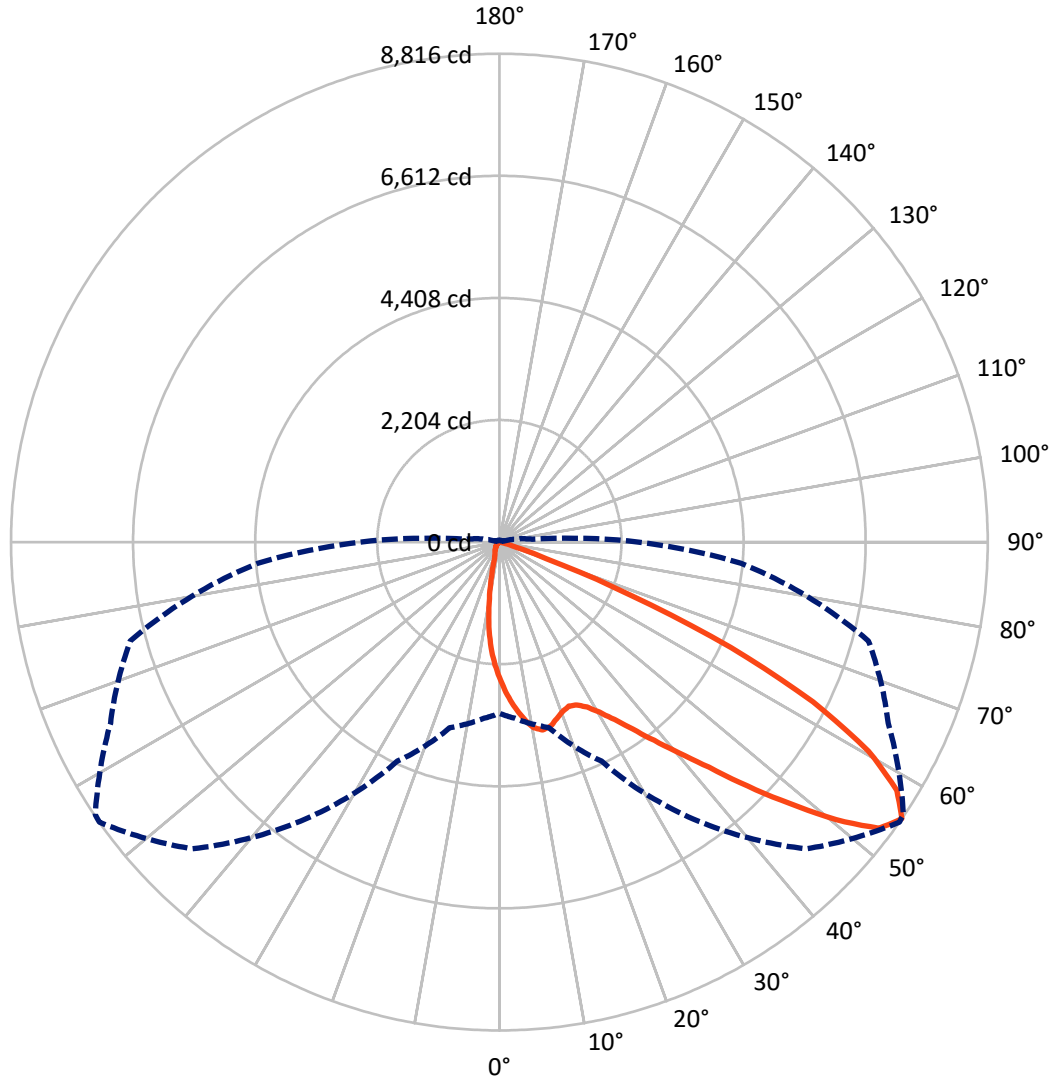
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 32.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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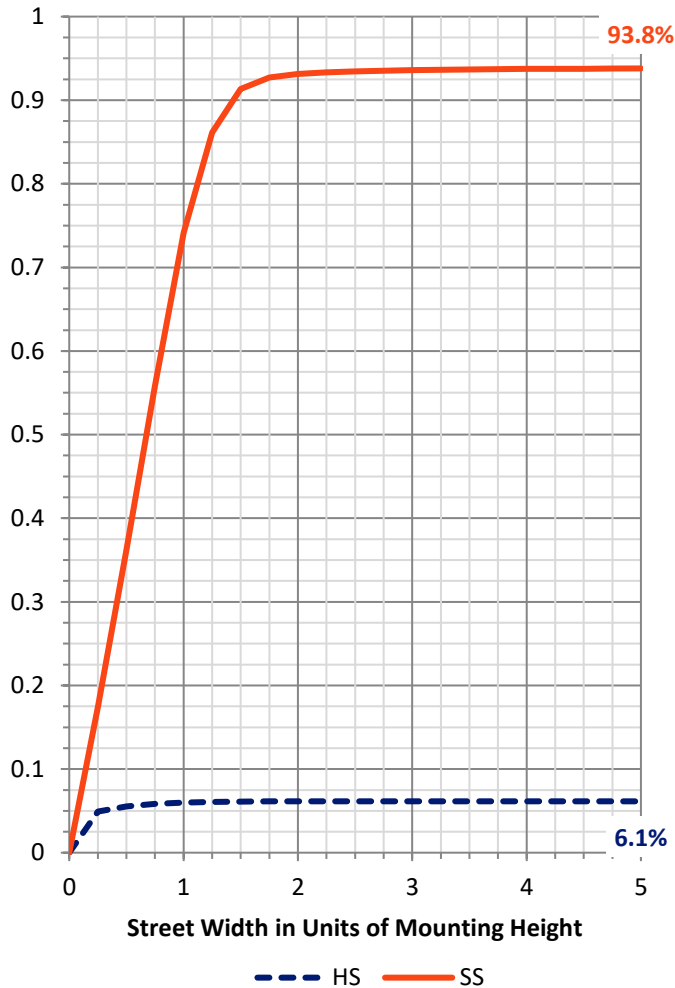
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	595.9	0.0	595.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	9061.4	0.0	9061.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	9657.3	0.0	9657.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.5	2.3
10°-20°	531.6	5.5
20°-30°	885.3	9.2
30°-40°	1508.6	15.6
40°-50°	2462.5	25.5
50°-60°	2578.1	26.7
60°-70°	1300.3	13.5
70°-80°	164.3	1.7
80°-90°	6.2	0.1
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°	9657.3	100.0
0°-180°	9657.3	100.0

Coefficient of Utilization



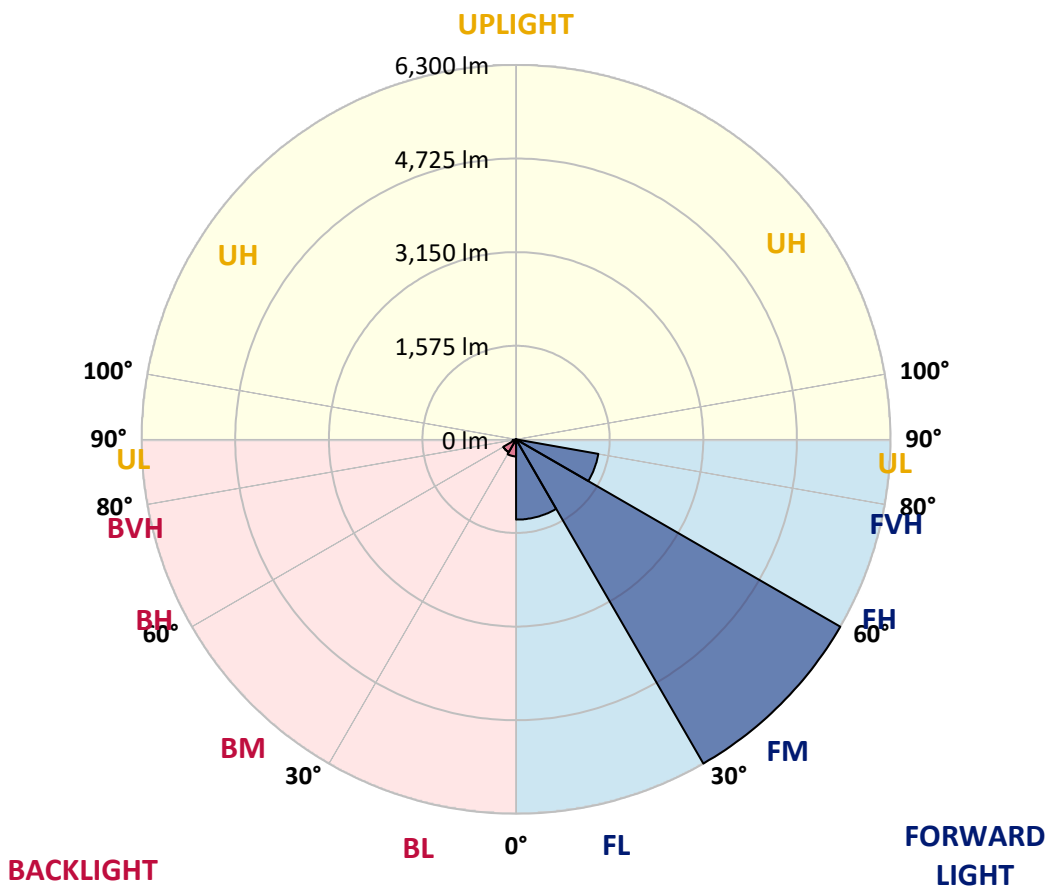
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1350.9	14.0			
FM (30°-60°)	6300.0	65.2			
FH (60°-80°)	1404.8	14.5			G1/1800
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	286.4	3.0	B1/500		
BM (30°-60°)	249.2	2.6	B1/1000		
BH (60°-80°)	59.8	0.6	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9
2.5°	2908.5	2894.5	2915.9	2891.2	2849.1	2813.6	2767.3	2750.8	2676.5	2606.3	2538.6
5°	3261.8	3266.0	3259.4	3224.7	3165.2	3099.2	3005.9	2985.3	2855.7	2721.9	2577.4
7.5°	3349.3	3346.9	3360.9	3374.1	3364.2	3331.2	3229.6	3209.0	3048.0	2847.4	2636.9
10°	3079.4	3081.0	3109.9	3199.1	3309.7	3424.5	3408.8	3397.2	3239.5	2989.4	2702.9
12.5°	2698.0	2712.8	2743.4	2870.5	3057.9	3318.8	3480.6	3492.2	3415.4	3145.4	2780.5
15°	2532.9	2536.2	2560.9	2637.7	2777.2	3099.2	3450.1	3482.3	3562.3	3302.3	2864.7
17.5°	2528.7	2532.9	2543.6	2577.4	2668.3	2926.7	3351.8	3408.0	3673.0	3470.7	2965.5
20°	2683.9	2681.5	2674.0	2655.9	2695.5	2869.7	3261.0	3322.9	3733.2	3635.0	3067.0
22.5°	2965.5	2962.2	2929.1	2854.0	2821.8	2921.7	3216.4	3272.6	3769.6	3781.1	3150.4
25°	3289.9	3313.0	3251.1	3137.2	3057.9	3054.6	3256.1	3295.7	3800.9	3910.7	3207.3
27.5°	3645.7	3653.2	3600.3	3472.4	3357.6	3267.6	3370.8	3400.5	3835.6	4026.3	3239.5
30°	4036.2	4033.7	3973.5	3824.9	3685.4	3555.7	3564.0	3575.6	3916.5	4158.4	3275.0
32.5°	4524.1	4534.9	4427.5	4225.3	4057.7	3878.5	3816.6	3818.3	4062.6	4328.5	3328.7
35°	5187.1	5160.7	5018.7	4730.5	4444.9	4251.7	4146.0	4136.9	4288.0	4557.2	3422.0
37.5°	5818.6	5821.1	5672.5	5355.5	4994.7	4690.1	4540.6	4515.9	4605.0	4874.2	3577.2
40°	6257.0	6265.3	6203.4	6037.4	5655.2	5224.2	5004.6	4979.0	5016.2	5275.4	3780.3
42.5°	6489.0	6512.1	6529.5	6568.3	6278.5	5891.3	5553.6	5551.2	5512.3	5732.8	4015.6
45°	6498.1	6532.8	6638.4	6903.4	6936.5	6652.5	6285.1	6229.8	6080.3	6222.3	4226.1
47.5°	6139.0	6219.0	6443.6	6968.7	7315.4	7409.5	7045.4	7011.6	6592.2	6609.5	4383.8
50°	5301.8	5385.2	5798.8	6634.3	7411.2	8010.5	7880.1	7809.9	7019.8	6865.5	4459.7
52.5°	4443.2	4519.2	4799.9	5838.5	7014.1	8199.6	8583.5	8500.1	7403.7	6954.6	4428.4
55°	3091.8	3193.3	3467.4	4364.0	6099.3	7831.4	8816.3	8799.0	7746.3	6898.5	4379.7
57.5°	1515.8	1616.5	1889.7	2690.5	4518.4	6837.4	8460.5	8552.1	7951.1	6838.2	4340.0
60°	633.2	674.5	768.6	1180.6	2527.9	5167.3	7657.2	7784.3	7825.6	6756.5	4335.9
62.5°	367.4	374.0	383.9	489.6	983.3	2962.2	6352.0	6532.8	7166.0	6648.3	4270.7
65°	277.4	279.9	275.7	300.5	406.2	1123.6	4589.4	4835.4	5981.3	6225.6	4013.1
67.5°	227.9	227.9	217.1	222.1	255.1	421.0	2533.7	2877.1	4425.9	5116.9	3313.8
70°	181.6	185.8	180.8	174.2	182.5	232.8	901.5	1117.8	2577.4	3021.6	1932.7
72.5°	137.9	137.9	146.1	141.2	135.4	146.1	314.5	353.3	1034.4	1259.8	697.6
75°	106.5	109.8	115.6	110.6	102.4	86.7	151.1	160.2	312.1	293.1	156.0
77.5°	54.5	55.3	73.5	80.9	76.0	52.8	66.0	72.7	101.5	90.8	57.8
80°	33.0	34.7	41.3	63.6	50.4	28.1	27.2	28.9	47.9	41.3	23.9
82.5°	14.0	14.9	23.1	23.1	20.6	10.7	10.7	10.7	23.1	21.5	9.9
85°	0.0	0.0	4.1	3.3	3.3	4.1	4.1	4.1	5.8	8.3	5.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.5	2.5
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°	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9	2494.9
2.5°	2494.9	2442.0	2371.0	2306.7	2220.0	2171.3	2103.6	2048.2	2001.2	1986.3	1979.7
5°	2495.7	2404.9	2253.0	2101.1	1914.5	1767.6	1616.5	1496.8	1398.5	1367.1	1358.9
7.5°	2512.2	2378.5	2132.5	1856.7	1544.6	1287.1	1056.7	850.3	754.6	722.4	715.8
10°	2534.5	2356.2	1992.9	1563.6	1115.3	784.3	555.6	423.5	360.8	326.1	331.1
12.5°	2563.4	2338.0	1838.6	1246.6	738.1	430.9	305.5	255.9	242.7	236.1	232.8
15°	2602.2	2316.6	1647.0	932.1	452.4	277.4	235.3	222.1	217.1	213.8	213.0
17.5°	2641.8	2291.8	1452.2	655.5	300.5	230.3	211.3	204.7	201.4	199.0	198.1
20°	2683.9	2249.7	1223.5	451.6	236.9	207.2	194.8	187.4	183.3	179.1	178.3
22.5°	2702.1	2182.0	1004.7	316.2	210.5	190.7	175.0	165.9	161.0	157.7	157.7
25°	2684.8	2072.2	778.5	240.2	191.5	172.5	156.9	147.0	142.8	139.5	139.5
27.5°	2638.5	1931.0	568.0	199.0	170.9	153.6	138.7	129.6	126.3	124.7	124.7
30°	2587.3	1752.7	400.4	170.9	147.8	133.7	121.4	115.6	114.8	113.1	113.1
32.5°	2543.6	1585.9	275.7	150.3	130.4	116.4	108.2	105.7	106.5	104.8	105.7
35°	2519.6	1422.5	204.7	133.7	116.4	103.2	99.1	99.1	99.1	98.2	98.2
37.5°	2529.6	1261.5	166.8	122.2	104.0	94.1	90.0	91.6	93.3	93.3	93.3
40°	2579.1	1118.7	147.8	111.5	93.3	85.9	82.6	85.0	87.5	89.2	89.2
42.5°	2641.8	1003.1	133.7	102.4	85.9	77.6	76.0	78.4	80.9	82.6	82.6
45°	2681.5	886.7	119.7	90.8	78.4	68.5	68.5	71.8	71.0	71.8	71.8
47.5°	2699.6	794.2	105.7	78.4	66.9	59.4	60.3	61.9	60.3	61.9	61.9
50°	2655.0	700.9	93.3	65.2	55.3	52.0	53.7	52.8	52.8	56.1	56.1
52.5°	2573.3	631.6	82.6	55.3	47.1	46.2	47.9	44.6	45.4	45.4	44.6
55°	2513.0	591.9	73.5	47.9	40.5	41.3	40.5	34.7	31.4	28.1	27.2
57.5°	2483.3	576.2	66.9	42.9	36.3	36.3	33.0	23.9	18.2	14.0	12.4
60°	2476.7	557.3	60.3	37.2	32.2	30.5	23.9	14.0	9.1	6.6	5.8
62.5°	2414.0	511.0	54.5	29.7	28.1	24.8	14.9	8.3	5.0	3.3	2.5
65°	2208.4	420.2	48.7	23.1	21.5	18.2	9.1	5.0	2.5	0.8	0.0
67.5°	1756.8	298.0	42.9	17.3	14.9	11.6	5.8	3.3	0.8	0.0	0.0
70°	1013.0	161.0	35.5	12.4	9.9	7.4	4.1	1.7	0.0	0.0	0.0
72.5°	338.5	75.1	27.2	8.3	7.4	5.8	2.5	0.8	0.0	0.0	0.0
75°	74.3	44.6	18.2	5.8	5.0	4.1	1.7	0.0	0.0	0.0	0.0
77.5°	28.1	31.4	9.1	4.1	3.3	2.5	0.8	0.0	0.0	0.0	0.0
80°	10.7	20.6	4.1	2.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0
82.5°	5.8	8.3	2.5	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.3	4.1	1.7	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.8	0.8	0.8	0.0	0.0	0.0	0.0	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)