

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: P632854

Luminaire Tested: GWS-SA2D-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632854
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10015.9 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

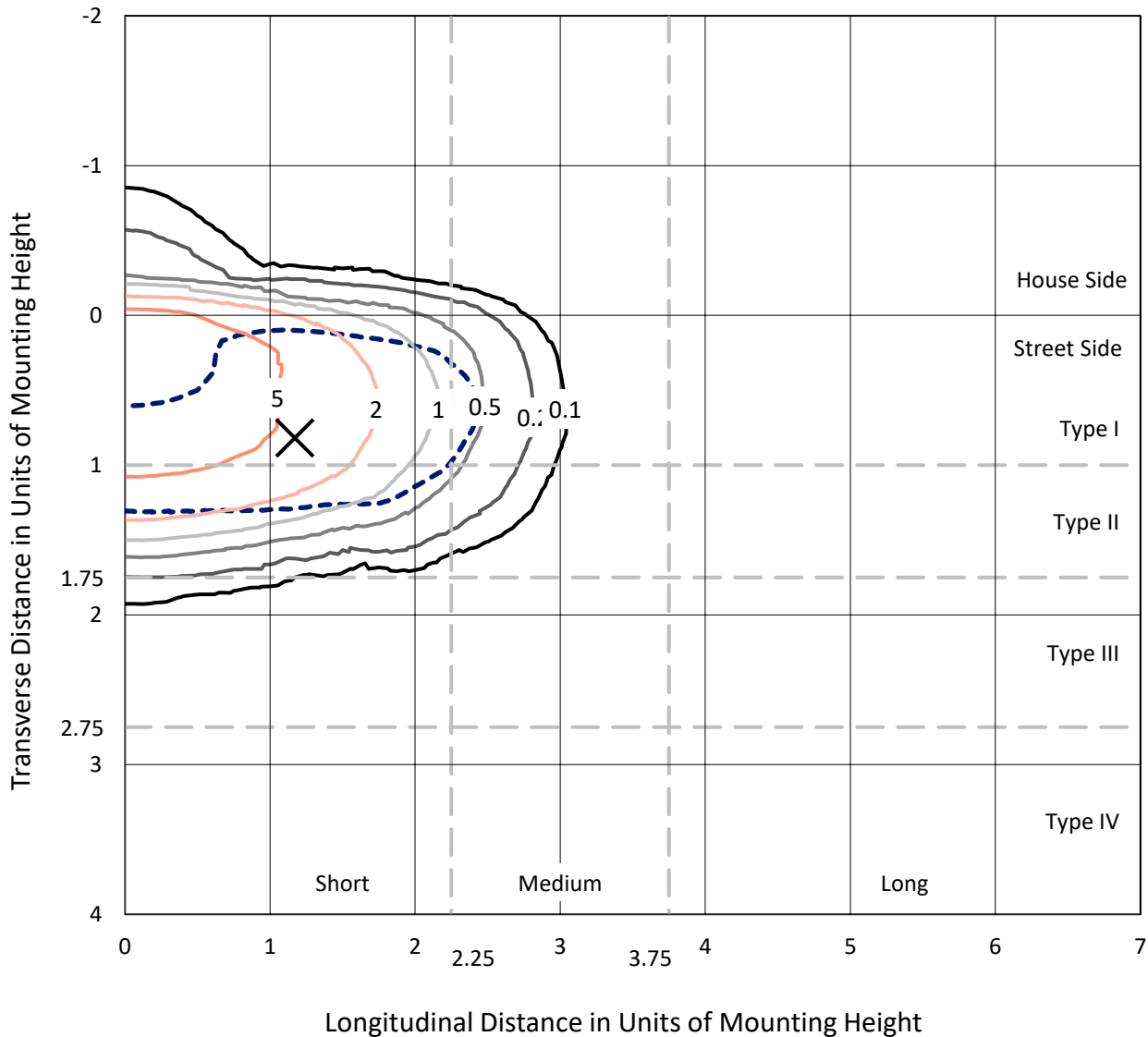
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P632854
 CATALOG NUMBER: GWS-SA2D-750-U-AFL-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

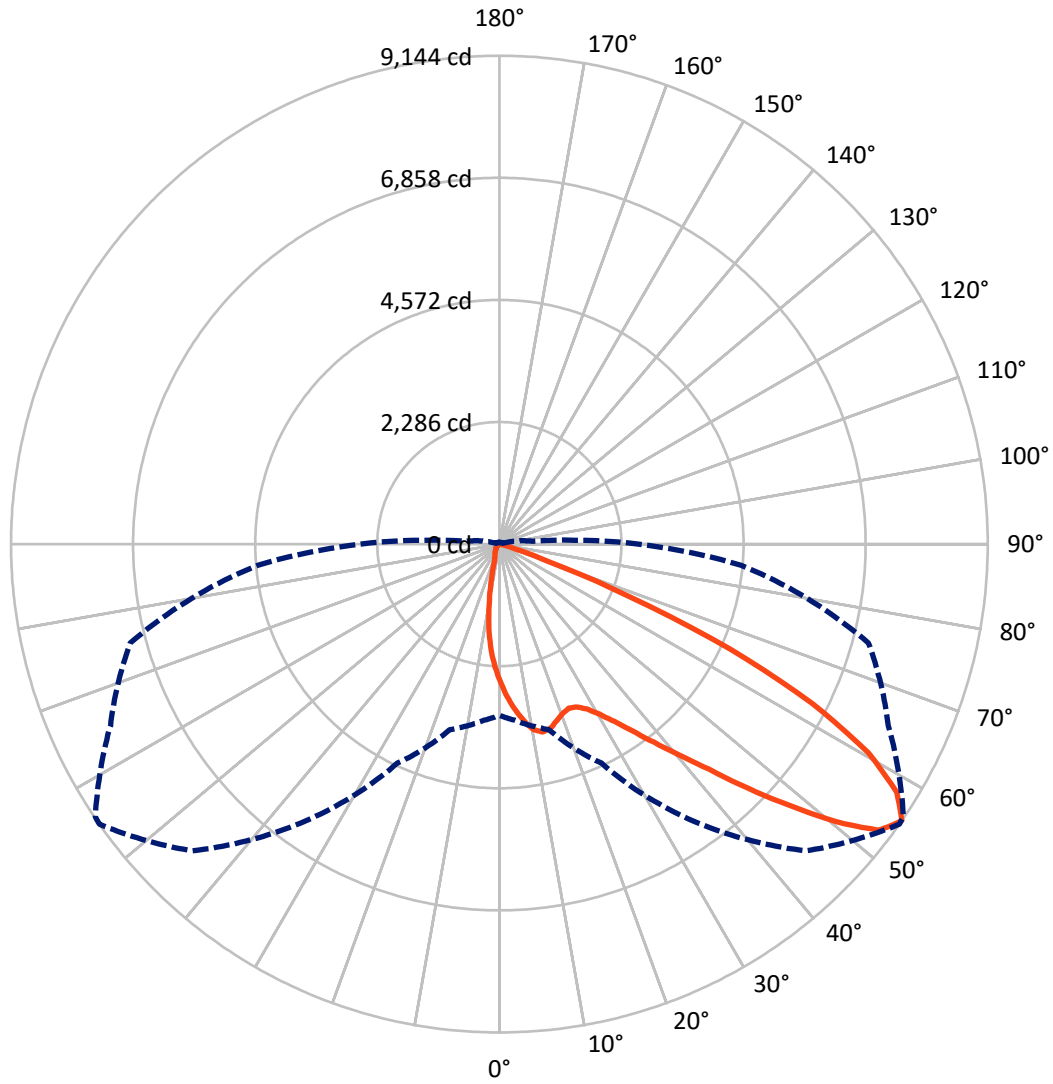
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

REPORT NUMBER: P632854
CATALOG NUMBER: GWS-SA2D-750-U-AFL-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P632854
 CATALOG NUMBER: GWS-SA2D-750-U-AFL-W-HSS

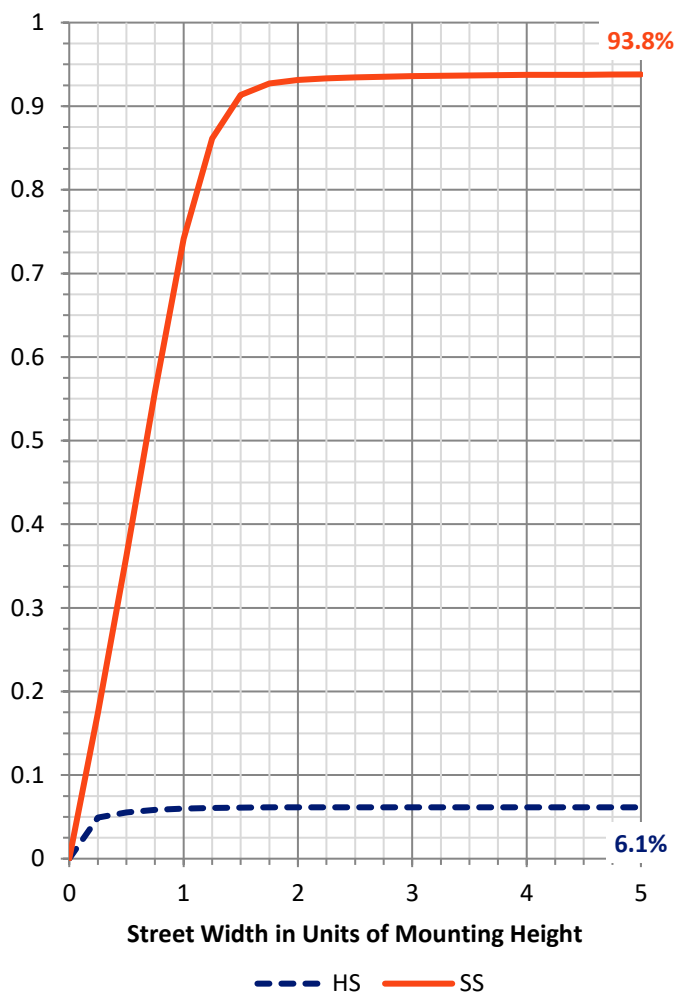
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	618.0	0.0	618.0
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	9397.9	0.0	9397.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	10015.9	0.0	10015.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	2.3
10°-20°	551.3	5.5
20°-30°	918.1	9.2
30°-40°	1564.6	15.6
40°-50°	2553.9	25.5
50°-60°	2673.8	26.7
60°-70°	1348.6	13.5
70°-80°	170.4	1.7
80°-90°	6.5	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°	10015.9	100.0
0°-180°	10015.9	100.0

Coefficient of Utilization



REPORT NUMBER: P632854

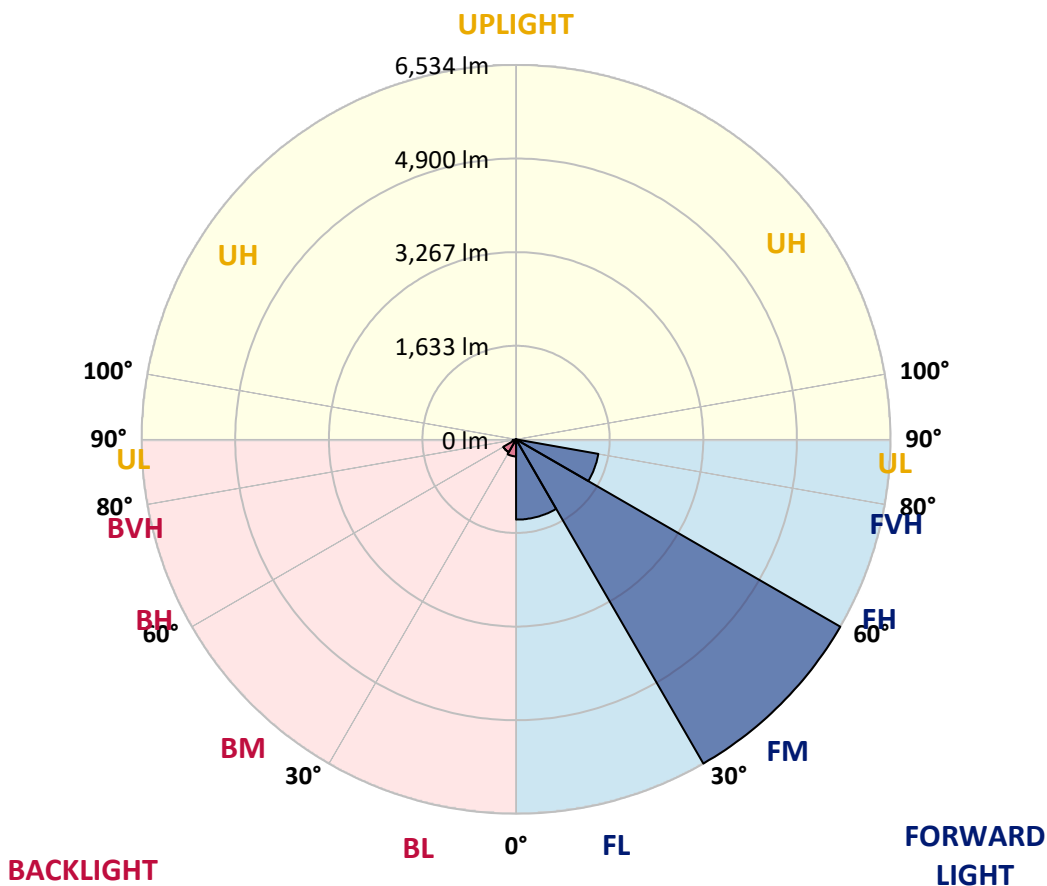
CATALOG NUMBER: GWS-SA2D-750-U-AFL-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1401.1	14.0			
FM (30°-60°)	6533.9	65.2			
FH (60°-80°)	1457.0	14.5			G1/1800
FVH (80°-90°)	5.9	0.1			G0/10
BL (0°-30°)	297.0	3.0	B1/500		
BM (30°-60°)	258.4	2.6	B1/1000		
BH (60°-80°)	62.0	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





REPORT NUMBER: P632854

CATALOG NUMBER: GWS-SA2D-750-U-AFL-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5
2.5°	3016.5	3001.9	3024.2	2998.5	2954.8	2918.0	2870.1	2853.0	2775.9	2703.1	2632.9
5°	3383.0	3387.2	3380.4	3344.4	3282.8	3214.3	3117.5	3096.1	2961.7	2823.0	2673.1
7.5°	3473.7	3471.1	3485.7	3499.4	3489.1	3454.9	3349.6	3328.2	3161.2	2953.1	2734.8
10°	3193.7	3195.4	3225.4	3317.9	3432.6	3551.6	3535.4	3523.4	3359.8	3100.4	2803.3
12.5°	2798.2	2813.6	2845.2	2977.1	3171.5	3442.0	3609.9	3621.8	3542.2	3262.2	2883.8
15°	2626.9	2630.3	2656.0	2735.6	2880.4	3214.3	3578.2	3611.6	3694.6	3424.9	2971.1
17.5°	2622.6	2626.9	2638.0	2673.1	2767.3	3035.3	3476.3	3534.5	3809.4	3599.6	3075.6
20°	2783.6	2781.0	2773.3	2754.5	2795.6	2976.2	3382.1	3446.3	3871.9	3770.0	3180.9
22.5°	3075.6	3072.1	3037.9	2960.0	2926.6	3030.2	3335.9	3394.1	3909.5	3921.5	3267.4
25°	3412.1	3436.0	3371.8	3253.7	3171.5	3168.0	3377.0	3418.1	3942.1	4056.0	3326.4
27.5°	3781.1	3788.8	3734.0	3601.3	3482.3	3389.0	3496.0	3526.8	3978.0	4175.8	3359.8
30°	4186.1	4183.5	4121.0	3966.9	3822.2	3687.8	3696.3	3708.3	4061.9	4312.8	3396.7
32.5°	4692.1	4703.3	4592.0	4382.2	4208.4	4022.6	3958.3	3960.1	4213.5	4489.2	3452.3
35°	5379.7	5352.3	5205.0	4906.2	4609.9	4409.6	4300.0	4290.6	4447.2	4726.4	3549.1
37.5°	6034.7	6037.3	5883.1	5554.4	5180.2	4864.2	4709.3	4683.6	4776.0	5055.2	3710.0
40°	6489.4	6497.9	6433.7	6261.6	5865.2	5418.2	5190.5	5163.9	5202.4	5471.3	3920.7
42.5°	6730.0	6753.9	6771.9	6812.2	6511.6	6110.0	5759.8	5757.3	5717.0	5945.6	4164.7
45°	6739.4	6775.3	6884.9	7159.8	7194.0	6899.5	6518.5	6461.1	6306.1	6453.4	4383.0
47.5°	6366.9	6450.0	6682.9	7227.4	7587.0	7684.6	7307.1	7271.9	6837.0	6855.0	4546.6
50°	5498.7	5585.2	6014.1	6880.7	7686.4	8308.0	8172.7	8099.9	7280.5	7120.4	4625.3
52.5°	4608.2	4687.0	4978.1	6055.2	7274.5	8504.1	8902.2	8815.7	7678.7	7212.9	4592.8
55°	3206.6	3311.9	3596.2	4526.0	6325.8	8122.2	9143.7	9125.7	8034.0	7154.6	4542.3
57.5°	1572.0	1676.5	1959.9	2790.4	4686.1	7091.3	8774.6	8869.7	8246.3	7092.1	4501.2
60°	656.7	699.5	797.1	1224.4	2621.8	5359.1	7941.5	8073.4	8116.2	7007.4	4496.9
62.5°	381.0	387.9	398.1	507.7	1019.8	3072.1	6587.8	6775.3	7432.1	6895.2	4429.3
65°	287.7	290.3	286.0	311.7	421.3	1165.3	4759.8	5014.9	6203.4	6456.8	4162.1
67.5°	236.3	236.3	225.2	230.3	264.6	436.7	2627.8	2984.0	4590.2	5306.9	3436.9
70°	188.4	192.7	187.5	180.7	189.2	241.5	935.0	1159.3	2673.1	3133.8	2004.4
72.5°	143.0	143.0	151.6	146.4	140.4	151.6	326.2	366.5	1072.9	1306.6	723.5
75°	110.5	113.9	119.9	114.7	106.2	89.9	156.7	166.1	323.7	304.0	161.8
77.5°	56.5	57.4	76.2	83.9	78.8	54.8	68.5	75.3	105.3	94.2	59.9
80°	34.2	36.0	42.8	65.9	52.2	29.1	28.3	30.0	49.7	42.8	24.8
82.5°	14.6	15.4	24.0	24.0	21.4	11.1	11.1	11.1	24.0	22.3	10.3
85°	0.0	0.0	4.3	3.4	3.4	4.3	4.3	4.3	6.0	8.6	5.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632854
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5
2.5°	2587.5	2532.7	2459.1	2392.3	2302.4	2251.9	2181.7	2124.3	2075.5	2060.1	2053.2
5°	2588.4	2494.2	2336.6	2179.1	1985.6	1833.2	1676.5	1552.3	1450.5	1417.9	1409.4
7.5°	2605.5	2466.8	2211.6	1925.7	1602.0	1334.9	1096.0	881.9	782.6	749.2	742.3
10°	2628.6	2443.7	2066.9	1621.7	1156.8	813.4	576.2	439.2	374.2	338.2	343.3
12.5°	2658.6	2424.8	1906.8	1292.9	765.5	447.0	316.8	265.4	251.7	244.9	241.5
15°	2698.8	2402.6	1708.2	966.7	469.2	287.7	244.0	230.3	225.2	221.8	220.9
17.5°	2739.9	2376.9	1506.1	679.8	311.7	238.9	219.2	212.3	208.9	206.4	205.5
20°	2783.6	2333.2	1268.9	468.4	245.7	214.9	202.1	194.4	190.1	185.8	184.9
22.5°	2802.4	2263.0	1042.0	327.9	218.3	197.8	181.5	172.1	167.0	163.5	163.5
25°	2784.5	2149.1	807.4	249.2	198.6	179.0	162.7	152.4	148.1	144.7	144.7
27.5°	2736.5	2002.7	589.1	206.4	177.2	159.3	143.8	134.4	131.0	129.3	129.3
30°	2683.4	1817.8	415.3	177.2	153.3	138.7	125.9	119.9	119.0	117.3	117.3
32.5°	2638.0	1644.8	286.0	155.8	135.3	120.7	112.2	109.6	110.5	108.7	109.6
35°	2613.2	1475.3	212.3	138.7	120.7	107.0	102.7	102.7	102.7	101.9	101.9
37.5°	2623.5	1308.3	173.0	126.7	107.9	97.6	93.3	95.0	96.8	96.8	96.8
40°	2674.9	1160.2	153.3	115.6	96.8	89.0	85.6	88.2	90.8	92.5	92.5
42.5°	2739.9	1040.3	138.7	106.2	89.0	80.5	78.8	81.3	83.9	85.6	85.6
45°	2781.0	919.6	124.2	94.2	81.3	71.1	71.1	74.5	73.6	74.5	74.5
47.5°	2799.9	823.7	109.6	81.3	69.4	61.6	62.5	64.2	62.5	64.2	64.2
50°	2753.6	726.9	96.8	67.6	57.4	53.9	55.7	54.8	54.8	58.2	58.2
52.5°	2668.9	655.0	85.6	57.4	48.8	47.9	49.7	46.2	47.1	47.1	46.2
55°	2606.4	613.9	76.2	49.7	42.0	42.8	42.0	36.0	32.5	29.1	28.3
57.5°	2575.5	597.6	69.4	44.5	37.7	37.7	34.2	24.8	18.8	14.6	12.8
60°	2568.7	578.0	62.5	38.5	33.4	31.7	24.8	14.6	9.4	6.8	6.0
62.5°	2503.6	530.0	56.5	30.8	29.1	25.7	15.4	8.6	5.1	3.4	2.6
65°	2290.4	435.8	50.5	24.0	22.3	18.8	9.4	5.1	2.6	0.9	0.0
67.5°	1822.1	309.1	44.5	18.0	15.4	12.0	6.0	3.4	0.9	0.0	0.0
70°	1050.6	167.0	36.8	12.8	10.3	7.7	4.3	1.7	0.0	0.0	0.0
72.5°	351.1	77.9	28.3	8.6	7.7	6.0	2.6	0.9	0.0	0.0	0.0
75°	77.1	46.2	18.8	6.0	5.1	4.3	1.7	0.0	0.0	0.0	0.0
77.5°	29.1	32.5	9.4	4.3	3.4	2.6	0.9	0.0	0.0	0.0	0.0
80°	11.1	21.4	4.3	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	8.6	2.6	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	4.3	1.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	0.9	0.9	0.9	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)