

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: P635805

Luminaire Tested: GWS-SA3E-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13792.9 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

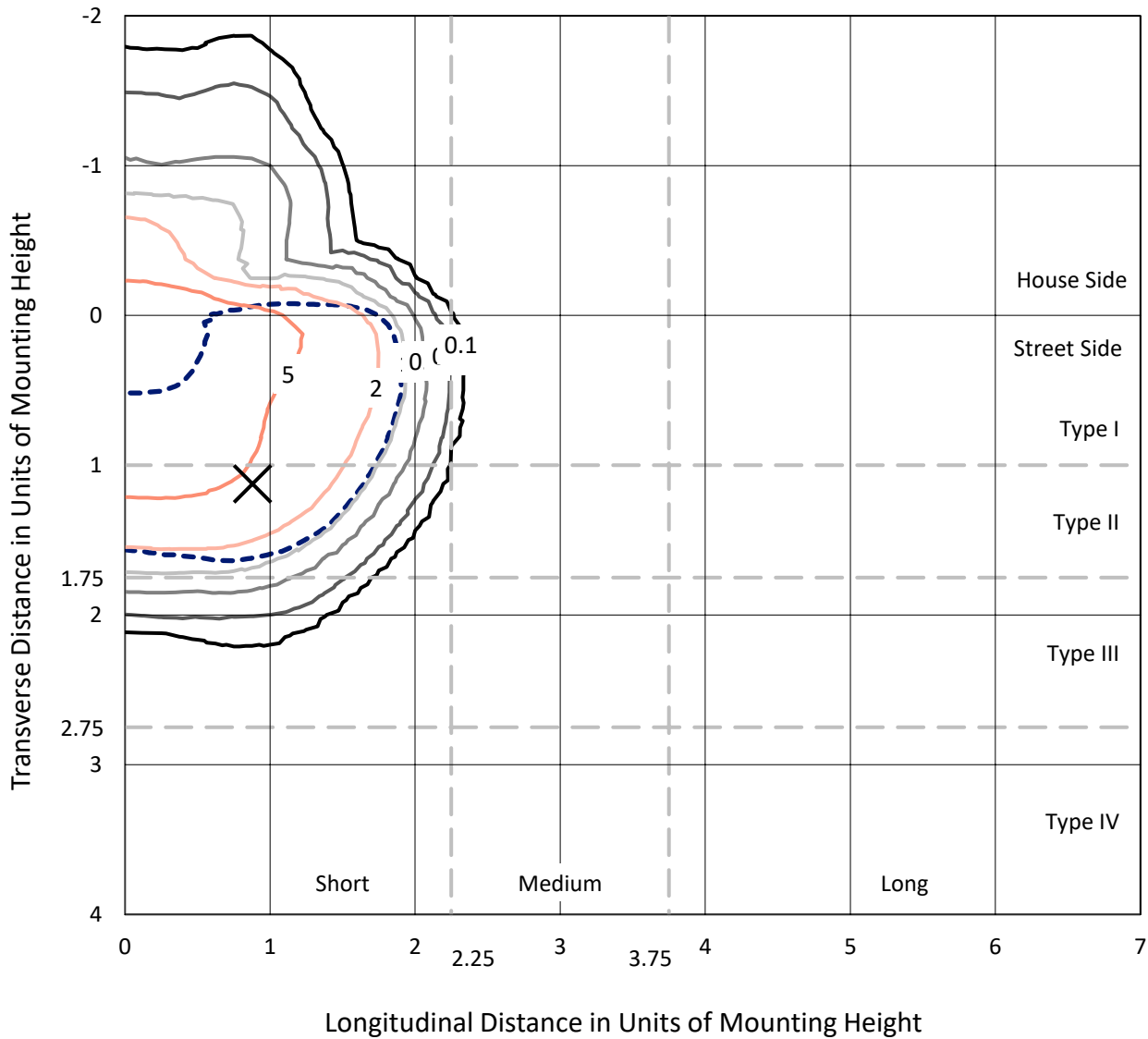
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

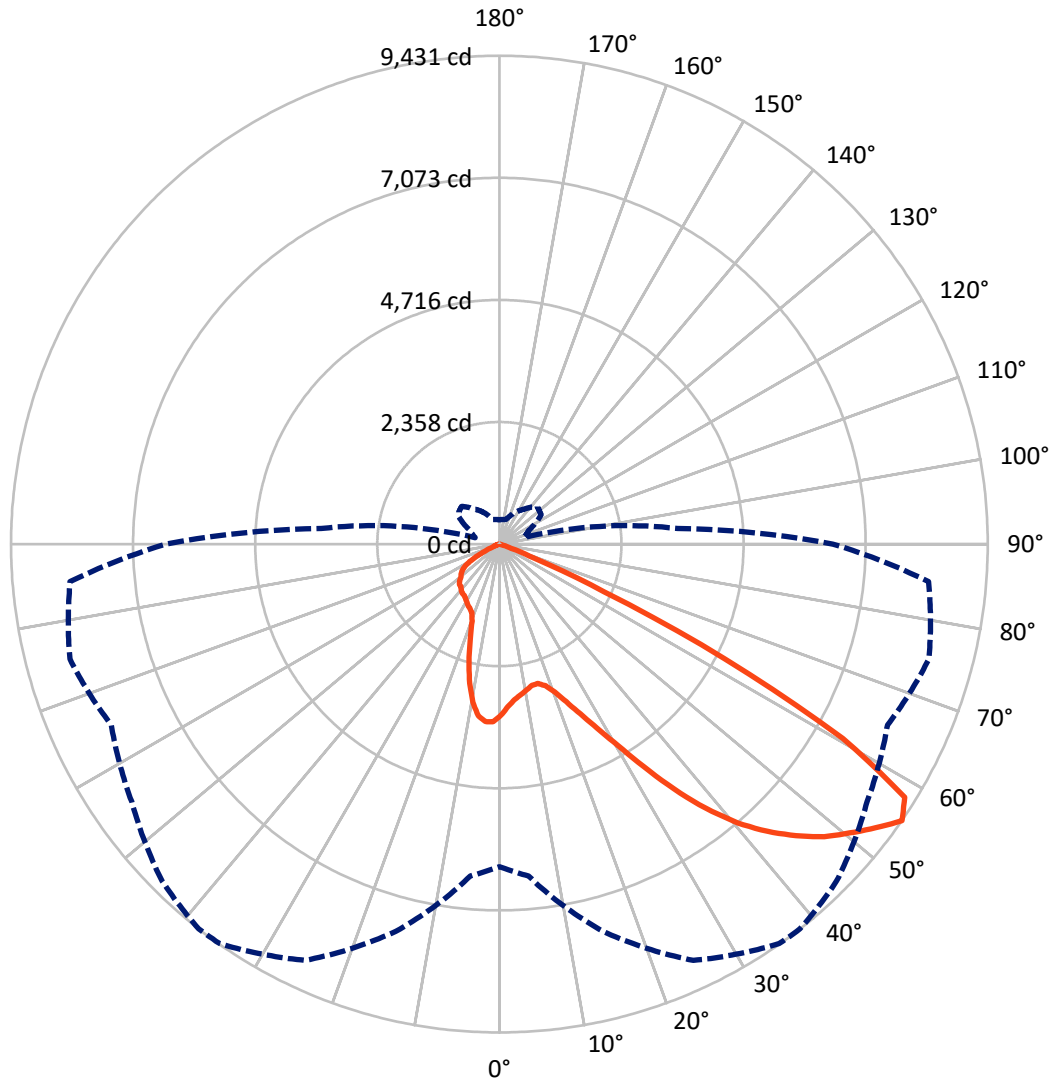
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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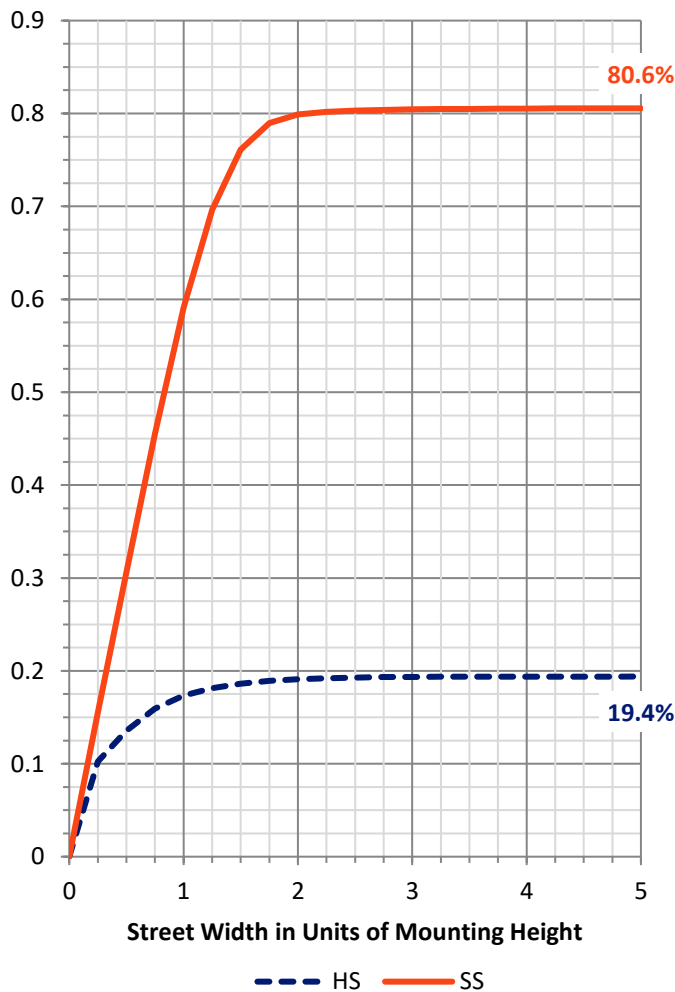
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2687.3	0.0	2687.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	11105.6	0.0	11105.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	13792.9	0.0	13792.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.8	2.2
10°-20°	823.3	6.0
20°-30°	1412.9	10.2
30°-40°	2343.4	17.0
40°-50°	3444.9	25.0
50°-60°	4025.5	29.2
60°-70°	1364.5	9.9
70°-80°	69.8	0.5
80°-90°	2.8	0.0
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°	13792.9	100.0
0°-180°	13792.9	100.0

Coefficient of Utilization



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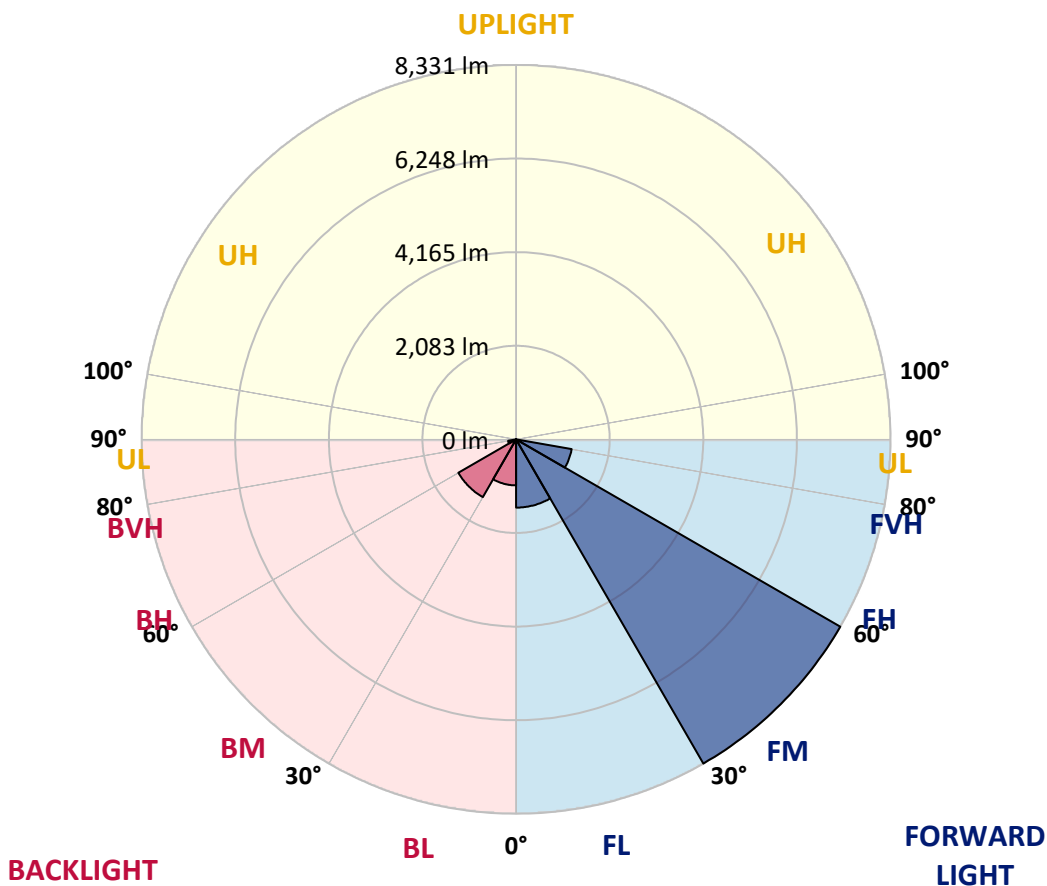
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1518.3	11.0			
FM (30°-60°)	8330.5	60.4			
FH (60°-80°)	1255.4	9.1			G1/1800
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	1023.8	7.4	B3/2500		
BM (30°-60°)	1483.3	10.8	B2/2500		
BH (60°-80°)	178.9	1.3	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6
2.5°	3080.6	3074.3	3086.9	3112.1	3135.8	3143.7	3167.3	3200.4	3220.9	3269.8	3309.2
5°	2941.9	2938.7	2951.3	2973.4	3004.9	3016.0	3052.2	3107.4	3162.6	3247.7	3331.3
7.5°	2815.8	2814.2	2833.1	2882.0	2927.7	2941.9	2986.0	3053.8	3127.9	3258.8	3381.7
10°	2650.2	2651.8	2688.1	2757.4	2841.0	2869.4	2940.3	3038.0	3134.2	3302.9	3473.2
12.5°	2596.6	2599.8	2618.7	2672.3	2763.7	2800.0	2899.3	3047.5	3170.5	3366.0	3591.4
15°	2727.5	2727.5	2711.7	2718.0	2759.0	2792.1	2896.2	3079.0	3232.0	3441.7	3708.1
17.5°	2981.3	2971.8	2932.4	2878.8	2864.6	2875.7	2959.2	3146.8	3318.7	3529.9	3840.5
20°	3325.0	3328.1	3250.9	3139.0	3049.1	3047.5	3098.0	3266.7	3443.2	3635.6	3984.0
22.5°	3741.2	3728.6	3626.1	3473.2	3317.1	3304.5	3325.0	3449.5	3623.0	3802.7	4160.6
25°	4223.6	4217.3	4072.3	3867.3	3660.8	3630.8	3630.8	3753.8	3879.9	4040.7	4371.8
27.5°	4728.1	4728.1	4587.8	4351.3	4077.0	4023.4	4015.5	4160.6	4244.1	4275.7	4550.0
30°	5246.8	5240.5	5101.8	4859.0	4565.7	4510.6	4488.5	4595.7	4655.6	4561.0	4772.3
32.5°	5773.4	5784.4	5644.1	5418.7	5157.0	5120.7	5052.9	5052.9	5101.8	4969.3	5122.3
35°	6339.4	6336.2	6225.9	6072.9	5849.1	5808.1	5696.1	5521.1	5595.2	5536.9	5606.3
37.5°	6839.2	6862.8	6809.2	6695.7	6514.4	6473.4	6288.9	5972.0	6028.8	6120.2	6181.7
40°	7346.8	7365.7	7419.3	7383.1	7154.5	7078.8	6750.9	6230.6	6293.7	6607.4	6784.0
42.5°	7845.0	7854.5	7963.3	8023.2	7717.3	7584.9	7100.9	6388.3	6454.5	6988.9	7297.9
45°	8161.9	8182.4	8362.1	8545.0	8213.9	8032.6	7405.1	6590.1	6618.4	7253.8	7677.9
47.5°	8149.3	8196.6	8534.0	8866.6	8641.2	8445.7	7770.9	6913.3	6866.0	7502.9	7928.6
50°	7895.5	7952.2	8436.2	8964.4	8948.6	8767.3	8177.7	7381.5	7233.3	7723.6	7960.1
52.5°	7368.9	7532.8	8264.4	8977.0	9196.1	9104.7	8680.6	8012.1	7729.9	8040.5	8010.6
55°	6230.6	6432.4	7742.5	8869.8	9420.0	9431.0	9208.7	8669.6	8269.1	8586.0	8321.1
57.5°	4729.7	4890.5	5959.4	7895.5	9049.5	9230.8	9413.7	9016.4	8601.8	8958.1	8393.7
60°	2850.4	3036.5	3731.7	5793.9	7309.0	7618.0	8335.3	8258.1	7758.3	7911.2	6883.3
62.5°	1155.6	1253.4	1723.2	3192.6	4600.4	4888.9	5576.3	5693.0	5570.0	5413.9	4174.8
65°	422.5	461.9	690.5	1319.6	2115.8	2221.4	2584.0	2790.5	2960.8	2520.9	1552.9
67.5°	261.7	286.9	449.3	677.9	769.4	715.8	728.4	868.7	829.3	512.4	277.5
70°	193.9	214.4	351.6	469.8	310.6	239.6	162.4	173.4	156.1	137.2	135.6
72.5°	134.0	152.9	263.3	277.5	119.8	85.1	59.9	83.6	94.6	93.0	96.2
75°	88.3	102.5	165.5	108.8	30.0	23.6	20.5	44.1	56.8	56.8	58.3
77.5°	52.0	59.9	58.3	22.1	6.3	6.3	4.7	7.9	12.6	14.2	17.3
80°	6.3	4.7	3.2	3.2	3.2	3.2	3.2	3.2	4.7	4.7	4.7
82.5°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	4.7	4.7
85°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.7	4.7
87.5°	0.0	0.0	1.6	1.6	3.2	3.2	3.2	3.2	3.2	4.7	4.7
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°	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6	3307.6
2.5°	3339.2	3328.1	3373.9	3407.0	3433.8	3446.4	3429.0	3427.5	3427.5	3392.8	3383.3
5°	3378.6	3383.3	3448.0	3476.3	3481.1	3465.3	3425.9	3399.1	3383.3	3347.1	3326.6
7.5°	3454.3	3470.0	3531.5	3526.8	3484.2	3411.7	3307.6	3227.2	3175.2	3118.5	3083.8
10°	3563.0	3593.0	3630.8	3564.6	3429.0	3244.6	3030.2	2877.2	2785.8	2721.2	2681.7
12.5°	3695.5	3725.4	3712.8	3556.7	3274.5	2945.0	2669.1	2448.4	2342.8	2284.4	2243.5
15°	3829.5	3848.4	3766.4	3462.1	3001.8	2558.8	2251.3	2032.2	1902.9	1855.6	1820.9
17.5°	3966.6	3961.9	3775.9	3276.1	2637.6	2123.6	1820.9	1671.2	1634.9	1627.0	1623.9
20°	4110.1	4067.5	3738.0	3009.7	2199.3	1693.2	1521.4	1530.8	1597.1	1628.6	1634.9
22.5°	4274.1	4166.9	3643.5	2648.6	1751.6	1411.0	1428.4	1521.4	1611.3	1653.8	1660.1
25°	4449.1	4258.3	3485.8	2185.1	1381.1	1297.5	1400.0	1507.2	1603.4	1655.4	1661.7
27.5°	4564.2	4280.4	3227.2	1718.5	1185.6	1253.4	1362.2	1464.6	1564.0	1620.7	1628.6
30°	4688.7	4270.9	2875.7	1324.3	1119.4	1215.5	1310.1	1403.1	1494.6	1557.7	1564.0
32.5°	4871.6	4264.6	2446.8	1075.2	1092.6	1185.6	1254.9	1332.2	1395.3	1431.5	1426.8
35°	5111.2	4256.7	1947.1	969.6	1076.8	1161.9	1217.1	1253.4	1184.0	1161.9	1166.7
37.5°	5418.7	4275.7	1526.1	925.4	1072.1	1155.6	1202.9	1098.9	991.7	950.7	944.4
40°	5759.2	4324.5	1163.5	908.1	1087.8	1171.4	1149.3	977.5	845.0	764.6	747.3
42.5°	6101.3	4378.1	920.7	901.8	1114.6	1215.5	1061.0	889.2	690.5	644.8	638.5
45°	6355.2	4368.7	796.2	890.8	1138.3	1240.8	1037.4	763.1	616.4	595.9	597.5
47.5°	6482.9	4264.6	728.4	865.5	1147.7	1215.5	979.0	711.0	566.0	588.1	607.0
50°	6415.1	3995.0	665.3	816.7	1127.2	1182.4	886.0	671.6	540.8	632.2	674.8
52.5°	6333.1	3663.9	595.9	741.0	1078.4	1136.7	849.8	660.6	525.0	610.1	641.7
55°	6441.9	3454.3	482.4	624.3	982.2	1029.5	821.4	659.0	488.7	474.5	469.8
57.5°	6288.9	3036.5	345.3	449.3	753.6	815.1	800.9	648.0	433.6	432.0	438.3
60°	4860.6	1852.5	236.5	285.4	461.9	520.3	726.8	619.6	373.6	343.7	345.3
62.5°	2762.1	788.3	162.4	176.6	236.5	280.6	555.0	562.8	345.3	327.9	345.3
65°	961.7	282.2	126.1	118.2	130.9	149.8	318.5	435.1	313.7	283.8	286.9
67.5°	198.6	140.3	111.9	97.7	97.7	97.7	162.4	271.2	258.6	225.4	228.6
70°	126.1	119.8	97.7	83.6	80.4	74.1	93.0	149.8	178.2	164.0	165.5
72.5°	93.0	91.4	77.3	67.8	59.9	53.6	58.3	74.1	91.4	94.6	96.2
75°	56.8	58.3	50.5	42.6	37.8	33.1	34.7	34.7	34.7	31.5	34.7
77.5°	17.3	18.9	15.8	12.6	11.0	11.0	11.0	9.5	7.9	4.7	4.7
80°	4.7	4.7	4.7	4.7	4.7	3.2	3.2	1.6	1.6	0.0	0.0
82.5°	4.7	4.7	4.7	4.7	3.2	3.2	1.6	1.6	0.0	0.0	0.0
85°	4.7	4.7	4.7	4.7	3.2	3.2	1.6	1.6	0.0	0.0	0.0
87.5°	4.7	4.7	4.7	4.7	3.2	3.2	1.6	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)