

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: P637397

Luminaire Tested: GWS-SA4C-760-U-T3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-25)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-760-U-T3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16715.4 lumens
Efficiency: N/A
Efficacy: 130.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

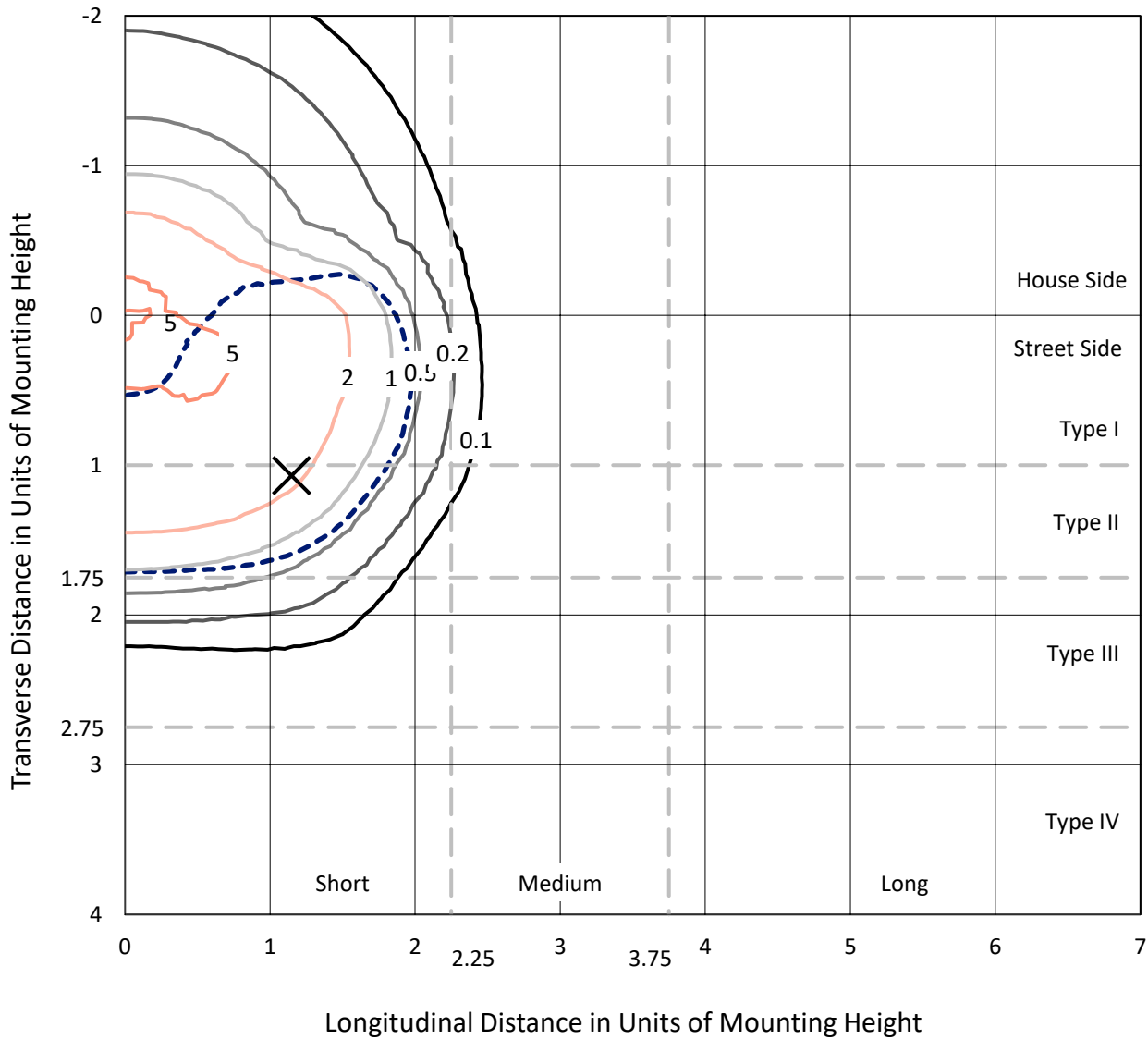
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

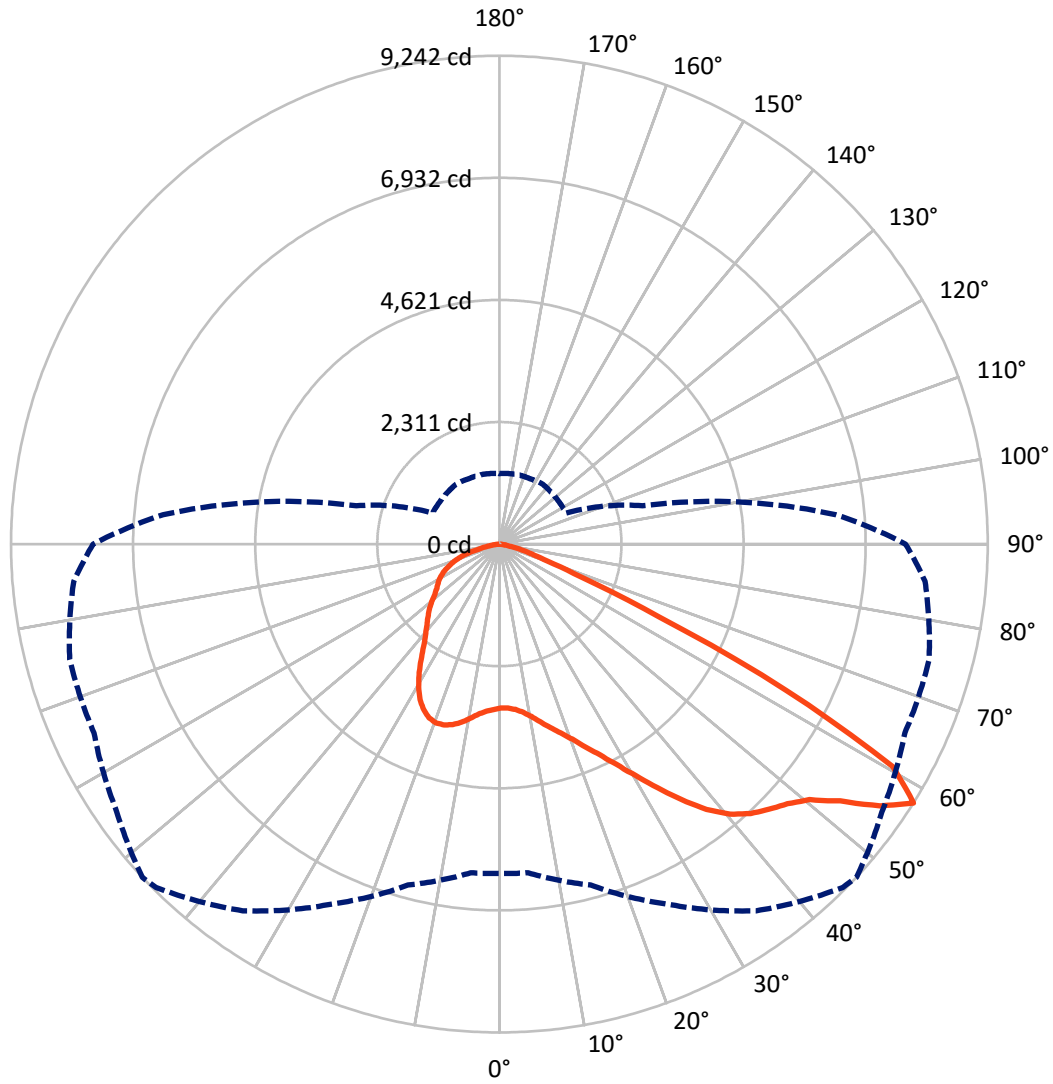
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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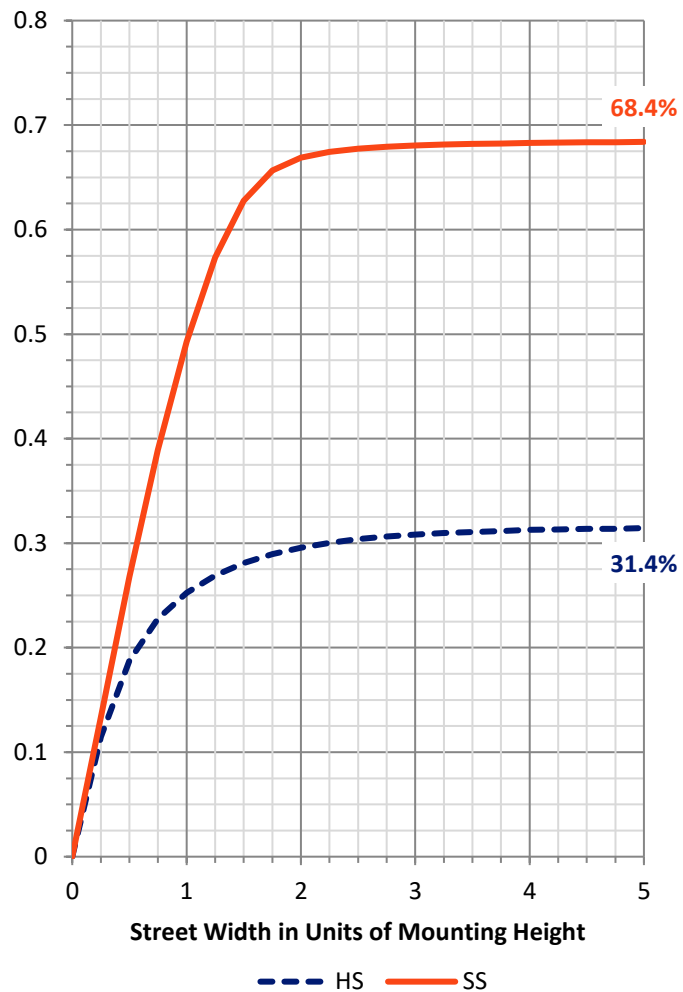
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5290.4	0.0	5290.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	11425.0	0.0	11425.0
	% Fixture	68.4	0.0	68.4
Total	Lumens	16715.4	0.0	16715.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.7	1.8
10°-20°	1005.6	6.0
20°-30°	1810.7	10.8
30°-40°	2734.9	16.4
40°-50°	3682.9	22.0
50°-60°	4425.5	26.5
60°-70°	2155.3	12.9
70°-80°	531.0	3.2
80°-90°	63.8	0.4
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°	16715.4	100.0
0°-180°	16715.4	100.0

Coefficient of Utilization



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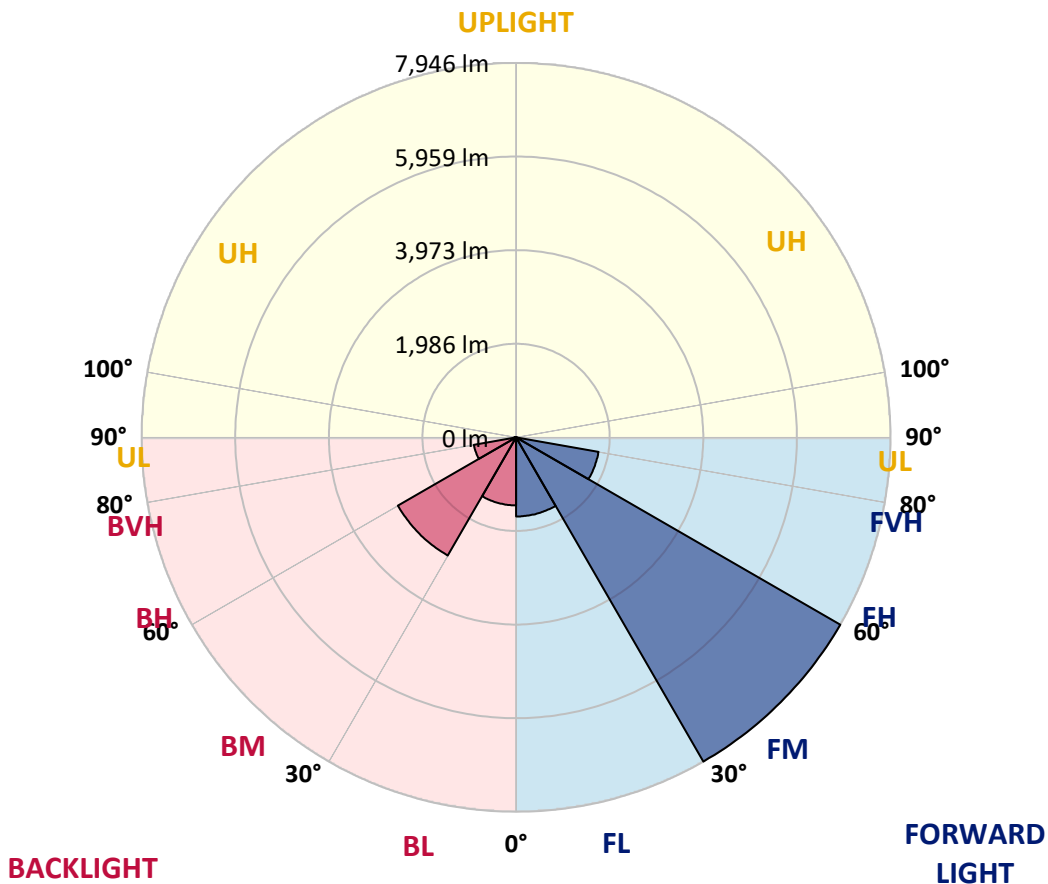
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1679.0	10.0			
FM (30°-60°)	7945.7	47.5			
FH (60°-80°)	1776.3	10.6			G1/1800
FVH (80°-90°)	24.0	0.1			G1/100
BL (0°-30°)	1443.1	8.6	B3/2500		
BM (30°-60°)	2897.5	17.3	B3/5000		
BH (60°-80°)	909.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	39.8	0.2			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°	47°	55°	65°	75°	85°
0°	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9
2.5°	3094.3	3092.9	3092.9	3101.3	3101.3	3104.1	3108.3	3112.5	3113.9	3106.9	3091.5
5°	3128.0	3128.0	3128.0	3135.0	3135.0	3137.8	3143.4	3144.8	3143.4	3132.2	3116.7
7.5°	3181.3	3181.3	3182.7	3191.2	3198.2	3202.4	3212.2	3210.8	3206.6	3188.3	3168.7
10°	3268.4	3272.6	3276.8	3286.6	3300.7	3310.5	3317.5	3317.5	3311.9	3283.8	3258.5
12.5°	3391.9	3397.5	3401.7	3410.2	3421.4	3438.2	3453.7	3453.7	3446.7	3411.6	3373.7
15°	3536.5	3542.1	3540.7	3543.5	3564.6	3588.5	3601.1	3609.5	3612.3	3563.2	3504.2
17.5°	3702.2	3707.8	3702.2	3693.8	3696.6	3734.5	3756.9	3787.8	3806.1	3740.1	3646.0
20°	3852.4	3846.8	3846.8	3852.4	3860.8	3907.2	3940.9	3991.4	4013.9	3933.8	3787.8
22.5°	4011.1	4023.7	4018.1	4018.1	4051.8	4129.0	4169.7	4235.7	4259.5	4155.7	3959.1
25°	4216.0	4227.3	4224.4	4227.3	4266.6	4376.1	4416.8	4538.9	4562.8	4414.0	4148.6
27.5°	4440.7	4458.9	4467.3	4464.5	4527.7	4670.9	4721.4	4891.3	4934.8	4703.2	4350.8
30°	4732.7	4752.3	4759.3	4756.5	4831.0	5026.1	5083.7	5277.4	5339.2	5045.8	4607.7
32.5°	5071.0	5090.7	5111.7	5120.2	5215.6	5415.0	5497.8	5698.6	5787.0	5441.7	4918.0
35°	5406.6	5423.4	5464.1	5530.1	5660.7	5864.2	5937.3	6135.2	6220.8	5853.0	5292.8
37.5°	5777.2	5788.4	5823.5	5914.8	6102.9	6296.7	6369.7	6559.2	6569.0	6250.3	5716.8
40°	6182.9	6182.9	6175.9	6265.8	6462.3	6657.5	6720.7	6830.2	6772.6	6556.4	6129.6
42.5°	6526.9	6521.3	6526.9	6611.1	6757.2	6915.8	6970.6	6949.5	6876.5	6790.8	6503.0
45°	6837.2	6841.4	6891.9	6956.5	7032.3	7126.4	7158.7	7039.3	6973.4	6979.0	6802.1
47.5°	7047.8	7052.0	7169.9	7278.0	7324.3	7353.8	7339.8	7174.1	7140.4	7203.6	7032.3
50°	7075.8	7098.3	7301.9	7523.7	7638.8	7643.0	7603.7	7401.6	7391.7	7463.3	7155.9
52.5°	7081.5	7103.9	7358.0	7758.2	8057.2	8120.4	8075.5	7864.9	7762.4	7690.8	7307.5
55°	7060.4	7085.7	7366.5	7915.4	8488.2	8740.9	8745.1	8447.5	8120.4	8072.6	7739.9
57.5°	6233.5	6243.3	6678.5	7515.3	8471.4	9187.4	9242.1	8837.8	8464.3	8419.4	8086.7
60°	4342.4	4381.7	4854.8	5959.7	7116.6	8378.7	8555.6	8437.7	8187.8	7860.6	6938.3
62.5°	2174.7	2208.4	2682.9	3727.5	4908.2	5905.0	6094.5	6219.4	6278.4	5927.4	4724.3
65°	936.4	961.7	1256.5	1947.3	2778.4	3259.9	3325.9	3476.2	3844.0	3429.8	2545.3
67.5°	626.2	643.0	793.2	1187.7	1637.0	1667.9	1658.1	1690.3	1770.4	1461.5	1149.8
70°	480.1	494.2	595.3	870.4	1176.5	1006.6	953.3	864.8	939.2	957.5	932.2
72.5°	348.2	359.4	435.2	593.9	737.1	643.0	634.6	679.5	780.6	808.7	793.2
75°	224.6	230.2	276.6	325.7	380.5	412.8	429.6	511.0	613.5	634.6	616.3
77.5°	150.2	154.4	181.1	209.2	216.2	217.6	223.2	259.7	329.9	369.2	365.0
80°	78.6	78.6	88.4	88.4	101.1	120.7	126.4	150.2	182.5	202.2	203.6
82.5°	30.9	32.3	37.9	42.1	50.5	61.8	66.0	78.6	95.5	109.5	122.1
85°	12.6	14.0	15.4	18.3	22.5	28.1	29.5	33.7	44.9	56.2	63.2
87.5°	0.0	0.0	1.4	1.4	2.8	4.2	4.2	5.6	7.0	12.6	16.8
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°	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9	3099.9
2.5°	3109.7	3091.5	3109.7	3115.3	3130.8	3136.4	3126.6	3125.2	3125.2	3111.1	3106.9
5°	3130.8	3113.9	3132.2	3140.6	3163.1	3177.1	3179.9	3191.2	3198.2	3192.6	3191.2
7.5°	3182.7	3161.7	3181.3	3194.0	3223.4	3245.9	3255.7	3281.0	3299.3	3296.4	3295.0
10°	3274.0	3245.9	3268.4	3289.4	3321.7	3348.4	3349.8	3363.8	3382.1	3376.5	3373.7
12.5°	3379.3	3352.6	3377.9	3398.9	3436.8	3448.1	3429.8	3424.2	3427.0	3420.0	3414.4
15°	3508.4	3470.5	3493.0	3516.9	3537.9	3525.3	3486.0	3470.5	3469.1	3459.3	3453.7
17.5°	3637.6	3589.9	3606.7	3619.4	3609.5	3570.2	3521.1	3494.4	3481.8	3462.1	3456.5
20°	3765.4	3705.0	3702.2	3692.4	3647.4	3575.8	3509.8	3456.5	3424.2	3397.5	3387.7
22.5°	3911.4	3827.1	3785.0	3740.1	3641.8	3525.3	3425.6	3349.8	3297.9	3264.2	3252.9
25°	4068.6	3949.3	3862.2	3772.4	3585.7	3417.2	3278.2	3174.3	3112.5	3076.0	3063.4
27.5°	4224.4	4060.2	3929.6	3776.6	3473.3	3261.3	3074.6	2934.2	2872.5	2843.0	2833.1
30°	4435.0	4207.6	4009.6	3721.8	3325.9	3045.1	2812.1	2670.3	2629.6	2608.5	2600.1
32.5°	4677.9	4394.3	4116.3	3606.7	3137.8	2792.4	2546.7	2448.5	2420.4	2379.7	2378.3
35°	4998.0	4661.1	4217.4	3436.8	2900.5	2521.5	2343.2	2273.0	2222.4	2157.9	2152.2
37.5°	5371.5	4993.8	4272.2	3220.6	2624.0	2298.2	2191.5	2112.9	2031.5	1945.9	1934.6
40°	5757.5	5382.7	4276.4	2965.1	2353.0	2150.8	2061.0	1958.5	1857.4	1761.9	1749.3
42.5°	6163.3	5744.9	4202.0	2670.3	2131.2	2023.1	1931.8	1802.7	1688.9	1624.4	1617.3
45°	6525.5	6036.9	4033.5	2360.0	1966.9	1916.4	1799.8	1660.9	1600.5	1554.2	1544.3
47.5°	6810.5	6230.7	3806.1	2082.0	1833.5	1806.9	1655.2	1583.6	1537.3	1495.2	1485.4
50°	6950.9	6274.2	3509.8	1856.0	1710.0	1677.7	1573.8	1519.1	1488.2	1454.5	1446.1
52.5°	7125.0	6323.3	3254.3	1666.5	1589.3	1545.7	1506.4	1462.9	1440.4	1419.4	1412.4
55°	7525.1	6508.7	3119.6	1514.8	1474.1	1454.5	1448.9	1412.4	1405.3	1391.3	1378.7
57.5°	7688.0	6389.3	2800.9	1391.3	1382.9	1385.7	1399.7	1366.0	1359.0	1342.2	1333.7
60°	6182.9	4829.5	1896.7	1284.6	1307.1	1325.3	1339.4	1305.7	1295.8	1293.0	1281.8
62.5°	3961.9	2970.7	1323.9	1184.9	1218.6	1241.1	1249.5	1217.2	1210.2	1232.7	1234.1
65°	2062.4	1618.7	1074.0	1078.2	1106.3	1140.0	1156.8	1145.6	1142.8	1166.7	1168.1
67.5°	1053.0	989.8	936.4	951.9	974.3	1017.9	1057.2	1106.3	1123.2	1126.0	1127.4
70°	897.1	869.0	842.4	852.2	876.1	899.9	937.8	961.7	933.6	926.6	923.8
72.5°	763.7	742.7	730.0	741.3	753.9	749.7	738.5	749.7	753.9	755.3	756.7
75°	593.9	578.4	568.6	570.0	570.0	554.6	533.5	520.9	506.8	495.6	495.6
77.5°	363.6	366.4	376.3	374.9	373.4	367.8	346.8	335.5	301.8	292.0	292.0
80°	207.8	212.0	221.8	224.6	224.6	217.6	196.6	183.9	168.5	161.5	160.0
82.5°	126.4	132.0	137.6	140.4	141.8	133.4	115.1	105.3	96.9	89.9	89.9
85°	66.0	68.8	74.4	75.8	71.6	63.2	53.3	49.1	40.7	39.3	39.3
87.5°	18.3	19.7	22.5	18.3	16.8	12.6	7.0	5.6	2.8	1.4	1.4
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)