

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: P638489

Luminaire Tested: GWS-SA4E-830-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638489
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-830-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20268.1 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

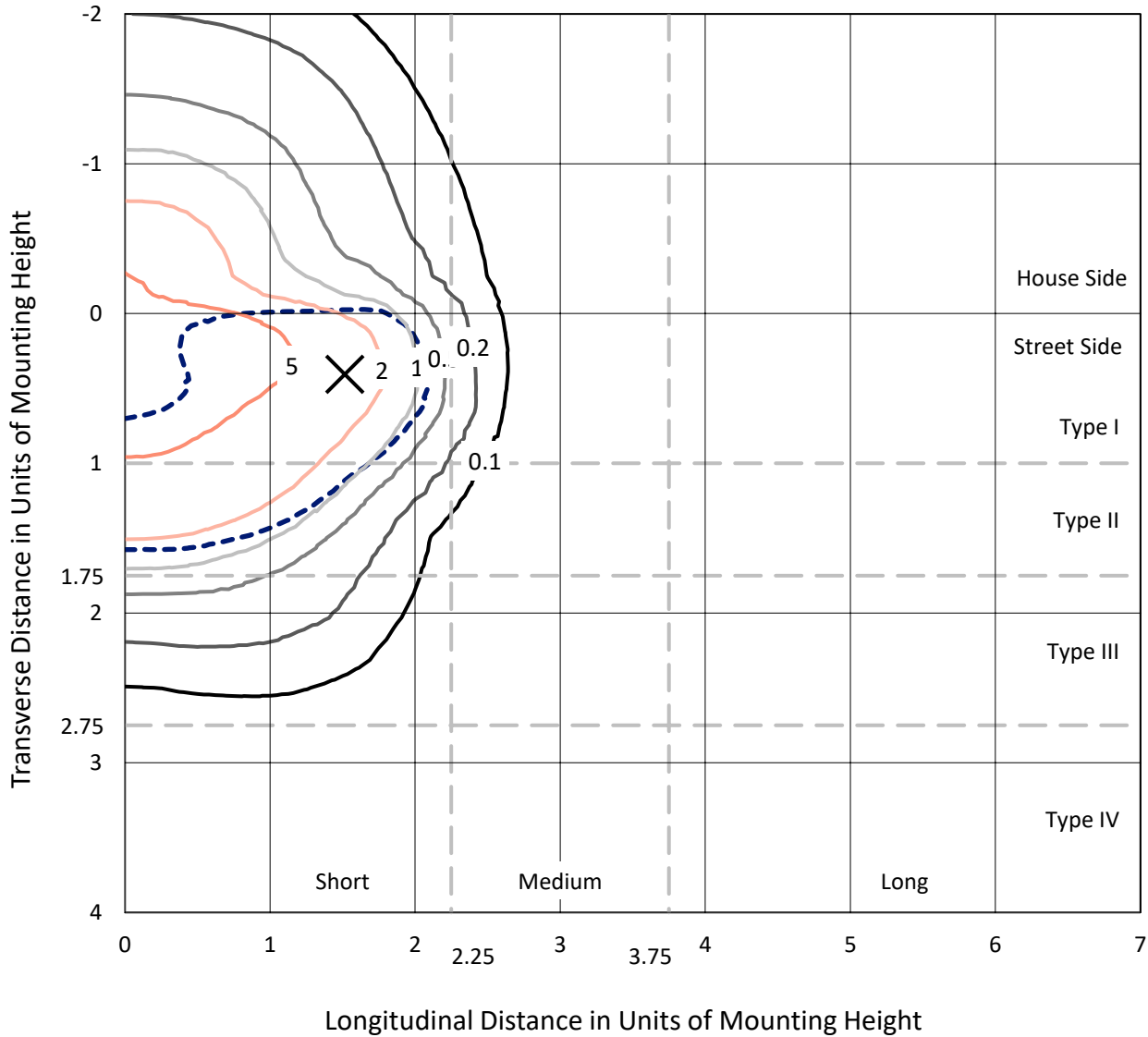
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

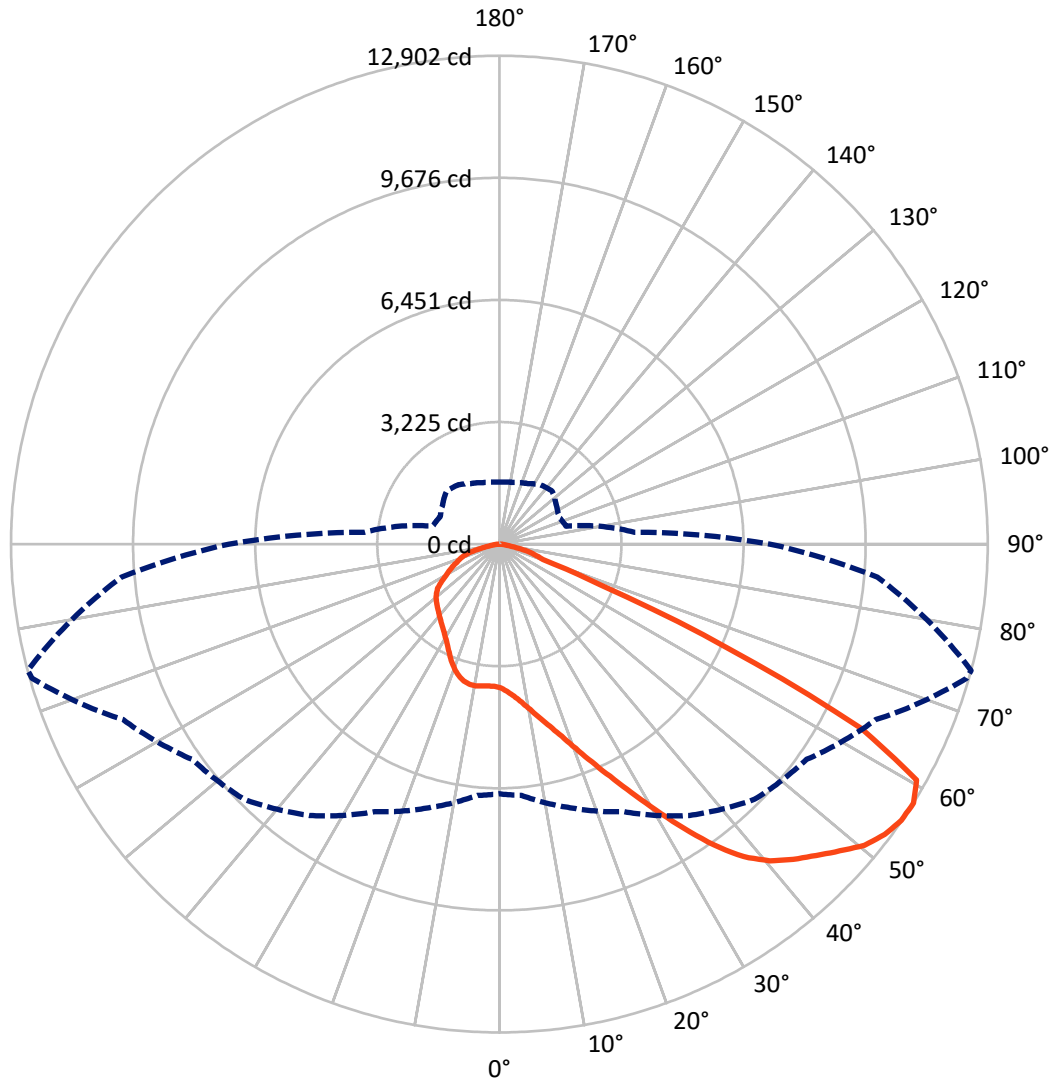
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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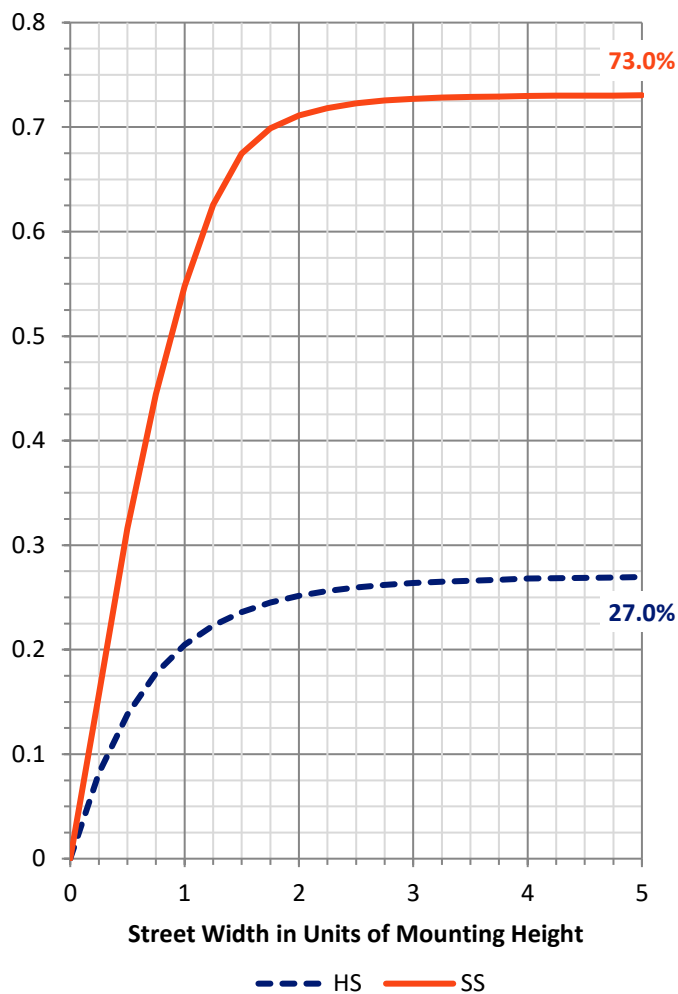
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5482.9	0.0	5482.9
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	14785.2	0.0	14785.2
	% Fixture	72.9	0.0	72.9
Total	Lumens	20268.1	0.0	20268.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.8	1.9
10°-20°	1209.3	6.0
20°-30°	2144.7	10.6
30°-40°	3283.2	16.2
40°-50°	4571.5	22.6
50°-60°	5238.1	25.8
60°-70°	2691.4	13.3
70°-80°	677.6	3.3
80°-90°	72.4	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°	20268.1	100.0
0°-180°	20268.1	100.0

Coefficient of Utilization

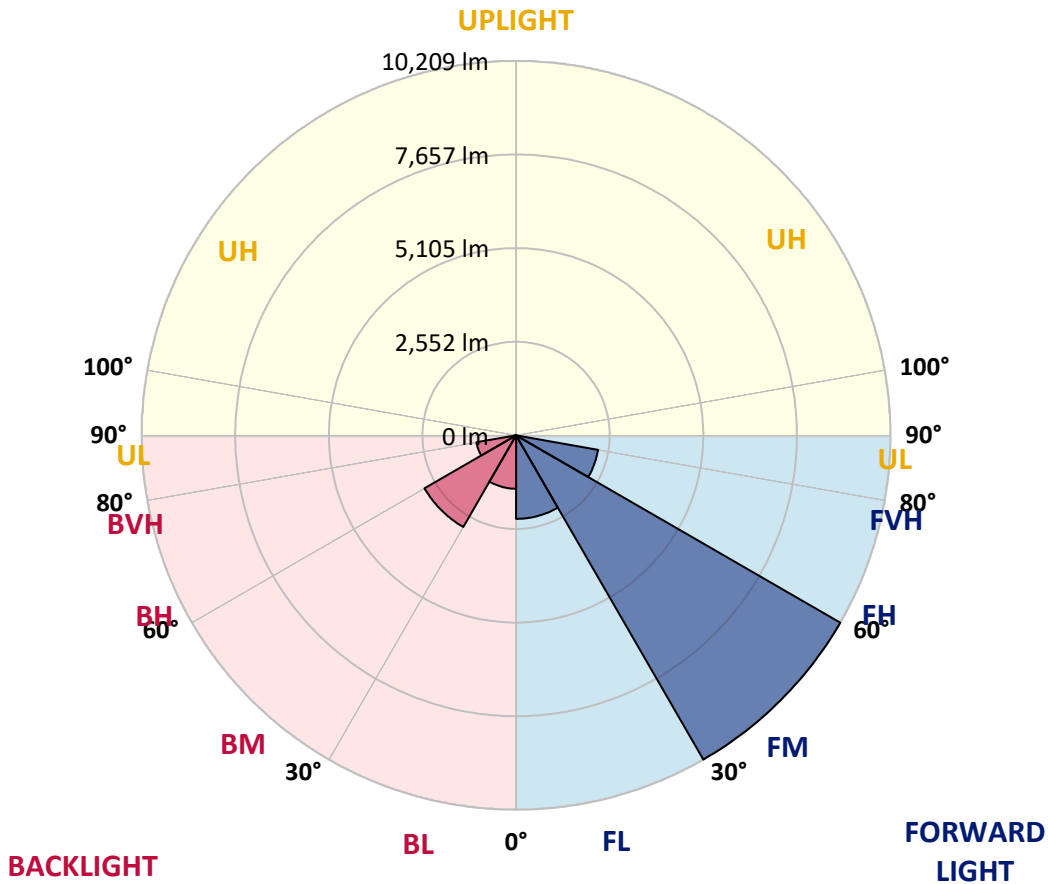


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2277.2	11.2			
FM (30°-60°)	10209.3	50.4			
FH (60°-80°)	2271.8	11.2			G2/5000
FVH (80°-90°)	26.8	0.1			G1/100
BL (0°-30°)	1456.6	7.2	B3/2500		
BM (30°-60°)	2883.5	14.2	B3/5000		
BH (60°-80°)	1097.2	5.4	B3/2500		G3/2500
BVH (80°-90°)	45.6	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7
2.5°	4078.1	4088.5	4078.1	4095.5	4060.6	4044.9	4006.6	3949.1	3903.8	3896.8	3846.3
5°	4395.2	4417.9	4404.0	4397.0	4349.9	4315.1	4257.6	4142.5	4048.4	4034.5	3935.1
7.5°	4599.1	4614.8	4614.8	4620.1	4602.6	4562.5	4501.5	4365.6	4233.2	4212.2	4062.4
10°	4667.1	4679.3	4702.0	4745.5	4780.4	4792.6	4752.5	4621.8	4459.7	4438.8	4229.7
12.5°	4682.8	4696.7	4731.6	4811.8	4907.6	4994.7	5001.7	4905.9	4724.6	4702.0	4423.1
15°	4712.4	4726.4	4773.4	4872.8	5013.9	5181.2	5284.0	5217.8	5017.4	4993.0	4642.7
17.5°	4708.9	4724.6	4794.3	4926.8	5116.7	5359.0	5557.7	5585.5	5378.2	5336.3	4891.9
20°	4700.2	4714.2	4789.1	4951.2	5186.5	5519.3	5878.3	6023.0	5799.9	5761.6	5183.0
22.5°	4769.9	4785.6	4843.1	4977.3	5223.0	5643.1	6174.6	6523.1	6300.1	6246.0	5517.6
25°	4926.8	4949.4	4984.3	5076.7	5289.3	5752.8	6477.8	7089.5	6861.2	6796.8	5881.8
27.5°	5169.0	5196.9	5245.7	5289.3	5437.4	5892.3	6779.3	7723.9	7495.6	7427.6	6267.0
30°	5465.3	5501.9	5564.6	5594.3	5695.3	6097.9	7107.0	8377.4	8245.0	8150.9	6700.9
32.5°	5874.8	5925.4	5984.6	5993.3	6054.3	6409.9	7431.1	9025.7	9024.0	8957.8	7194.1
35°	6408.1	6462.1	6474.3	6486.5	6516.2	6838.6	7823.2	9616.5	9844.8	9768.2	7730.9
37.5°	6990.2	7068.6	7087.8	7033.8	7075.6	7354.4	8264.2	10090.6	10559.4	10477.5	8250.2
40°	7612.4	7643.7	7696.0	7610.6	7662.9	7945.2	8696.4	10393.8	11092.7	11005.5	8659.8
42.5°	8058.5	8116.0	8194.5	8163.1	8192.7	8450.6	8999.6	10540.2	11472.6	11385.4	8954.3
45°	8543.0	8560.4	8611.0	8604.0	8621.4	8861.9	9217.5	10604.7	11812.4	11734.0	9205.3
47.5°	8964.8	8990.9	9024.0	8985.7	8947.3	9104.2	9395.2	10660.5	12204.5	12110.4	9468.4
50°	9370.8	9393.5	9433.6	9322.0	9179.1	9219.2	9482.4	10737.1	12572.3	12506.0	9675.8
52.5°	9445.8	9470.2	9658.4	9681.0	9498.0	9356.9	9635.7	10906.2	12788.4	12746.5	9750.7
55°	8502.9	8546.5	8921.2	9351.6	9803.0	9757.7	9881.4	10995.1	12873.8	12884.2	9884.9
57.5°	6599.8	6662.6	7209.8	7800.6	8750.4	9536.4	9912.8	10972.4	12844.1	12901.6	10022.6
60°	4329.0	4365.6	5013.9	5676.2	6660.8	7748.3	8872.4	10564.6	12581.0	12662.9	9987.8
62.5°	2614.1	2656.0	3177.0	3679.0	4259.3	4986.0	6017.7	8490.7	10545.4	10728.4	7999.3
65°	1824.7	1880.4	2337.0	2750.1	2950.5	2800.6	3048.1	4742.0	6570.2	6646.9	4888.4
67.5°	1322.8	1361.1	1735.8	2227.2	2448.6	1978.0	1507.5	2100.0	2861.6	2889.5	2016.4
70°	866.2	909.7	1249.6	1695.7	1998.9	1603.3	1127.6	1136.3	1204.2	1218.2	1171.1
72.5°	475.8	501.9	772.0	1125.8	1181.6	958.5	880.1	944.6	991.6	991.6	1003.8
75°	245.7	268.4	315.4	371.2	447.9	524.6	634.4	730.2	780.8	784.2	779.0
77.5°	125.5	134.2	169.0	183.0	200.4	233.5	303.2	388.6	433.9	451.4	447.9
80°	59.3	62.7	71.5	83.7	102.8	130.7	163.8	195.2	223.1	226.6	245.7
82.5°	31.4	34.9	38.3	45.3	55.8	69.7	95.9	115.0	132.4	135.9	151.6
85°	12.2	13.9	15.7	17.4	24.4	29.6	40.1	54.0	66.2	66.2	78.4
87.5°	0.0	0.0	0.0	0.0	1.7	3.5	7.0	8.7	12.2	12.2	20.9
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°	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7	3795.7
2.5°	3834.1	3783.5	3760.9	3724.3	3694.6	3661.5	3635.4	3616.2	3604.0	3597.1	3590.1
5°	3896.8	3820.1	3759.1	3685.9	3635.4	3586.6	3546.5	3518.6	3504.7	3494.2	3487.3
7.5°	3994.4	3891.6	3776.6	3663.3	3574.4	3496.0	3445.4	3415.8	3396.6	3389.7	3384.4
10°	4128.6	3985.7	3795.7	3616.2	3483.8	3398.4	3363.5	3349.6	3351.3	3347.8	3346.1
12.5°	4280.2	4085.0	3790.5	3532.6	3386.2	3335.6	3337.4	3360.0	3386.2	3393.2	3394.9
15°	4444.0	4182.6	3740.0	3424.5	3309.5	3314.7	3360.0	3414.1	3462.9	3482.0	3485.5
17.5°	4621.8	4264.5	3647.6	3306.0	3246.8	3302.5	3386.2	3475.1	3546.5	3577.9	3586.6
20°	4820.5	4334.2	3516.9	3189.2	3187.5	3279.9	3401.9	3518.6	3609.3	3651.1	3658.1
22.5°	5031.3	4377.8	3356.6	3081.2	3126.5	3250.2	3389.7	3511.7	3607.5	3649.3	3658.1
25°	5244.0	4391.8	3180.5	2981.9	3063.8	3203.2	3330.4	3428.0	3518.6	3555.2	3562.2
27.5°	5442.6	4351.7	3013.2	2896.5	3006.3	3133.5	3218.9	3271.2	3333.9	3361.8	3367.0
30°	5644.8	4271.5	2872.1	2828.5	2941.8	3037.6	3076.0	3079.5	3103.9	3103.9	3107.3
32.5°	5848.7	4153.0	2748.3	2762.3	2861.6	2924.3	2929.6	2889.5	2859.9	2811.1	2809.3
35°	6084.0	4032.7	2647.3	2687.3	2767.5	2805.8	2790.2	2713.5	2642.0	2561.9	2558.4
37.5°	6301.8	3909.0	2561.9	2610.7	2661.2	2689.1	2652.5	2560.1	2500.9	2418.9	2406.7
40°	6481.3	3797.5	2479.9	2530.5	2554.9	2579.3	2520.0	2445.1	2453.8	2408.5	2406.7
42.5°	6585.9	3689.4	2403.3	2441.6	2457.3	2474.7	2422.4	2366.7	2413.7	2378.9	2380.6
45°	6662.6	3595.3	2333.6	2347.5	2385.8	2412.0	2363.2	2300.4	2310.9	2176.7	2145.3
47.5°	6749.7	3543.0	2267.3	2253.4	2321.4	2366.7	2291.7	2201.1	2138.4	2005.9	1993.7
50°	6842.1	3523.9	2197.6	2159.3	2241.2	2284.8	2197.6	2084.3	2002.4	1931.0	1924.0
52.5°	6873.4	3522.1	2110.5	2046.0	2127.9	2188.9	2115.7	2000.7	1903.1	1833.4	1829.9
55°	6997.2	3572.7	1998.9	1890.9	1967.6	2093.1	2039.0	1873.5	1795.0	1763.7	1760.2
57.5°	7141.8	3581.4	1822.9	1721.8	1828.2	1976.3	1908.3	1765.4	1680.0	1641.7	1638.2
60°	7082.6	3367.0	1634.7	1592.9	1709.6	1866.5	1803.8	1680.0	1580.7	1544.1	1540.6
62.5°	5397.3	2377.1	1497.0	1481.3	1582.4	1707.9	1695.7	1566.7	1472.6	1446.5	1443.0
65°	3246.8	1669.6	1364.6	1362.8	1434.3	1554.5	1570.2	1465.7	1366.3	1329.7	1329.7
67.5°	1605.1	1277.4	1214.7	1206.0	1251.3	1336.7	1402.9	1317.5	1233.9	1199.0	1193.8
70°	1134.5	1125.8	1104.9	1080.5	1089.2	1124.1	1152.0	1080.5	991.6	956.8	949.8
72.5°	981.2	982.9	969.0	949.8	942.8	918.4	894.0	841.8	787.7	751.1	754.6
75°	761.6	765.1	773.8	766.8	747.6	721.5	695.4	629.1	585.6	550.7	543.7
77.5°	444.4	461.8	489.7	482.7	486.2	449.6	439.2	374.7	334.6	310.2	305.0
80°	251.0	261.4	273.6	282.3	271.9	256.2	233.5	198.7	186.5	169.0	165.6
82.5°	151.6	162.1	167.3	174.3	170.8	149.9	132.4	109.8	99.3	90.6	88.9
85°	76.7	83.7	88.9	92.4	81.9	68.0	61.0	48.8	41.8	36.6	36.6
87.5°	19.2	20.9	24.4	20.9	19.2	8.7	7.0	1.7	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)