

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: P637719

Luminaire Tested: GWS-SA4D-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637719
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-SA4D-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20137.2 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

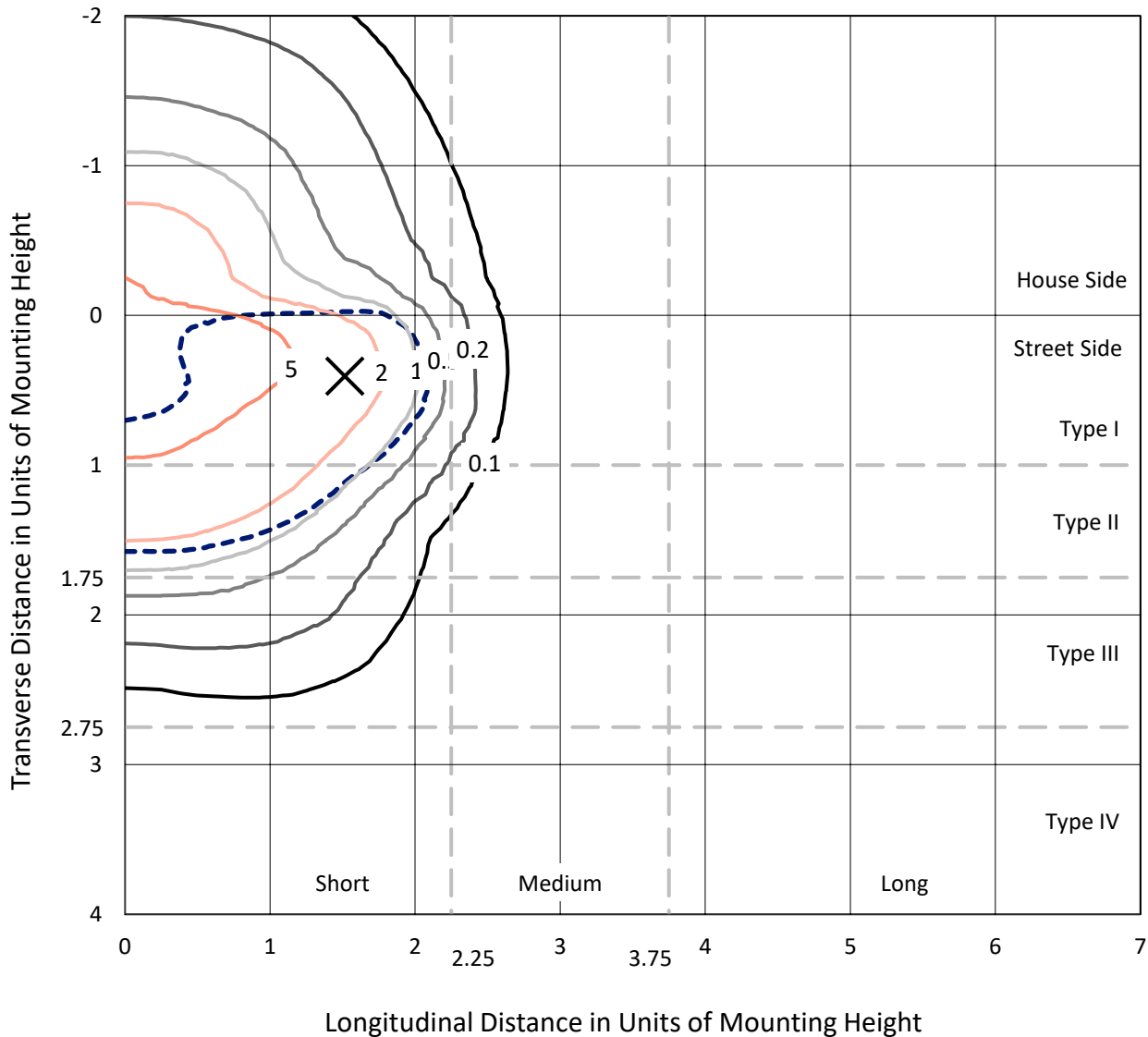
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637719
 CATALOG NUMBER: GWS-SA4D-735-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

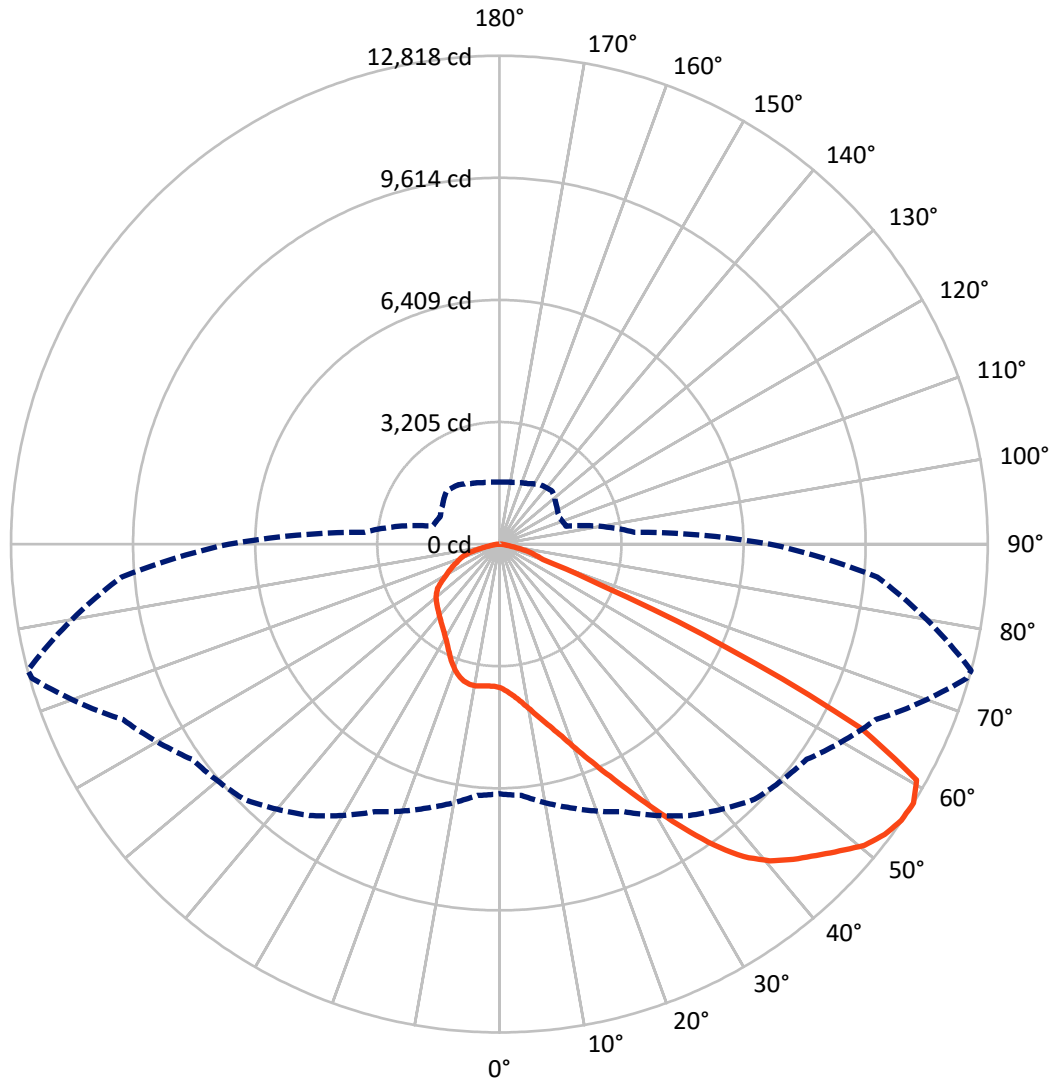
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Short - N/A

REPORT NUMBER: P637719
CATALOG NUMBER: GWS-SA4D-735-U-T2-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637719

CATALOG NUMBER: GWS-SA4D-735-U-T2-W-GRSWH

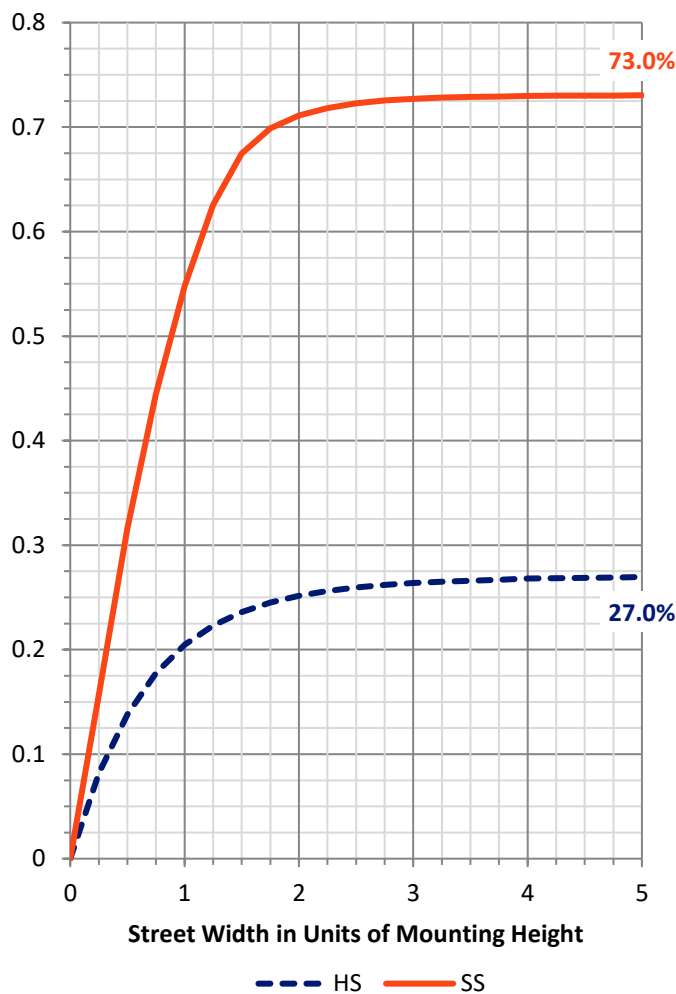
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5447.5	0.0	5447.5
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	14689.7	0.0	14689.7
	% Fixture	72.9	0.0	72.9
Total	Lumens	20137.2	0.0	20137.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.4	1.9
10°-20°	1201.5	6.0
20°-30°	2130.8	10.6
30°-40°	3262.0	16.2
40°-50°	4542.0	22.6
50°-60°	5204.3	25.8
60°-70°	2674.0	13.3
70°-80°	673.2	3.3
80°-90°	72.0	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°	20137.2	100.0
0°-180°	20137.2	100.0

Coefficient of Utilization



REPORT NUMBER: P637719

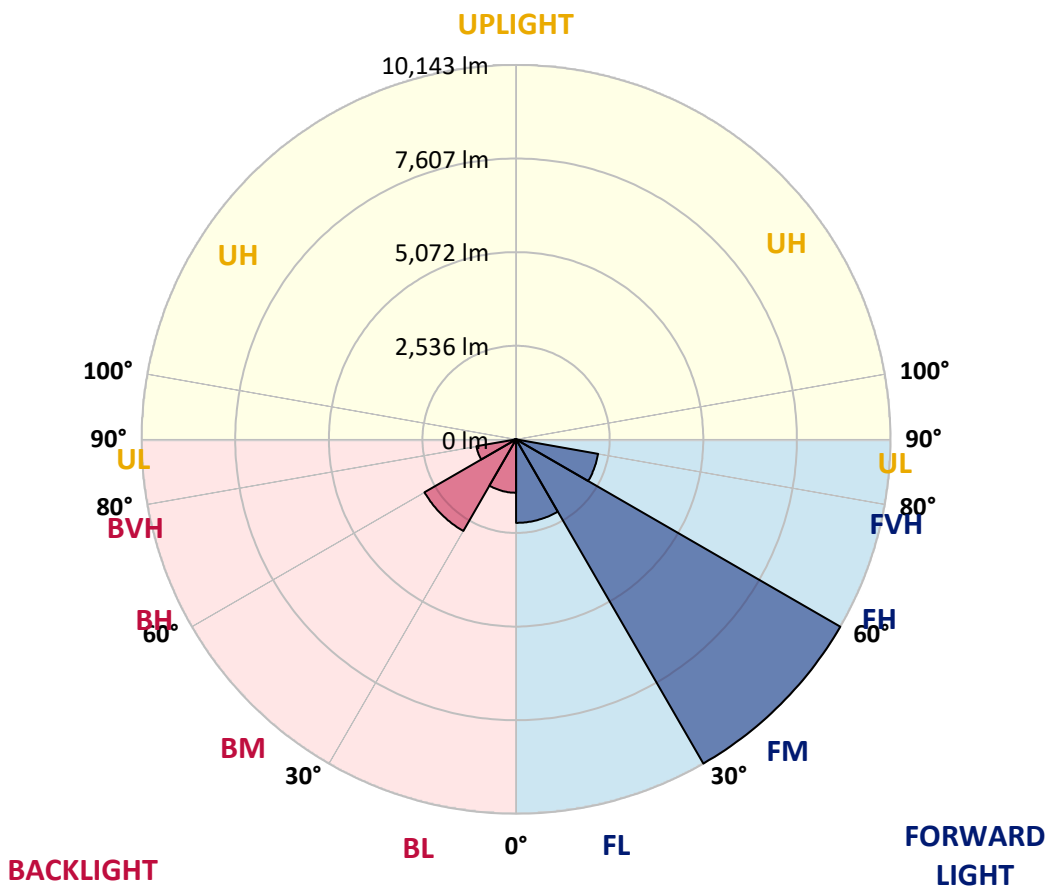
CATALOG NUMBER: GWS-SA4D-735-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2262.5	11.2			
FM (30°-60°)	10143.3	50.4			
FH (60°-80°)	2257.2	11.2			G2/5000
FVH (80°-90°)	26.6	0.1			G1/100
BL (0°-30°)	1447.2	7.2	B3/2500		
BM (30°-60°)	2864.9	14.2	B3/5000		
BH (60°-80°)	1090.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	45.3	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





REPORT NUMBER: P637719

CATALOG NUMBER: GWS-SA4D-735-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2
2.5°	4051.7	4062.1	4051.7	4069.0	4034.4	4018.8	3980.7	3923.6	3878.6	3871.6	3821.4
5°	4366.9	4389.4	4375.5	4368.6	4321.8	4287.2	4230.1	4115.8	4022.3	4008.4	3909.7
7.5°	4569.4	4585.0	4585.0	4590.2	4572.9	4533.1	4472.5	4337.4	4205.8	4185.0	4036.1
10°	4637.0	4649.1	4671.6	4714.9	4749.5	4761.6	4721.8	4591.9	4430.9	4410.1	4202.4
12.5°	4652.5	4666.4	4701.0	4780.7	4875.9	4962.5	4969.4	4874.2	4694.1	4671.6	4394.6
15°	4682.0	4695.8	4742.6	4841.3	4981.5	5147.8	5249.9	5184.1	4985.0	4960.8	4612.7
17.5°	4678.5	4694.1	4763.4	4895.0	5083.7	5324.4	5521.8	5549.5	5343.4	5301.9	4860.3
20°	4669.9	4683.7	4758.2	4919.2	5153.0	5483.7	5840.4	5984.1	5762.4	5724.3	5149.5
22.5°	4739.1	4754.7	4811.8	4945.2	5189.3	5606.6	6134.7	6481.0	6259.4	6205.7	5481.9
25°	4895.0	4917.5	4952.1	5043.9	5255.1	5715.7	6436.0	7043.8	6816.9	6752.9	5843.8
27.5°	5135.6	5163.3	5211.8	5255.1	5402.3	5854.2	6735.5	7674.0	7447.2	7379.7	6226.5
30°	5430.0	5466.4	5528.7	5558.1	5658.6	6058.5	7061.1	8323.3	8191.7	8098.2	6657.6
32.5°	5836.9	5887.1	5946.0	5954.6	6015.2	6368.5	7383.1	8967.5	8965.7	8899.9	7147.6
35°	6366.7	6420.4	6432.5	6444.7	6474.1	6794.4	7772.7	9554.4	9781.3	9705.1	7680.9
37.5°	6945.1	7023.0	7042.0	6988.3	7029.9	7306.9	8210.8	10025.4	10491.2	10409.8	8196.9
40°	7563.2	7594.4	7646.3	7561.5	7613.4	7893.9	8640.2	10326.7	11021.0	10934.4	8603.8
42.5°	8006.5	8063.6	8141.5	8110.4	8139.8	8396.1	8941.5	10472.1	11398.5	11311.9	8896.5
45°	8487.8	8505.1	8555.4	8548.4	8565.7	8804.7	9157.9	10536.2	11736.1	11658.2	9145.8
47.5°	8906.9	8932.8	8965.7	8927.6	8889.5	9045.4	9334.5	10591.6	12125.7	12032.2	9407.3
50°	9310.3	9332.8	9372.6	9261.8	9119.8	9159.7	9421.1	10667.8	12491.1	12425.3	9613.3
52.5°	9384.7	9409.0	9596.0	9618.5	9436.7	9296.4	9573.5	10835.7	12705.8	12664.2	9687.8
55°	8448.0	8491.3	8863.6	9291.2	9739.7	9694.7	9817.6	10924.1	12790.6	12801.0	9821.1
57.5°	6557.2	6619.5	7163.2	7750.2	8693.9	9474.8	9848.8	10901.5	12761.2	12818.3	9957.9
60°	4301.1	4337.4	4981.5	5639.5	6617.8	7698.3	8815.1	10496.4	12499.7	12581.1	9923.2
62.5°	2597.3	2638.8	3156.5	3655.2	4231.8	4953.8	5978.9	8435.9	10477.3	10659.1	7947.6
65°	1812.9	1868.3	2321.9	2732.3	2931.4	2782.5	3028.4	4711.4	6527.8	6604.0	4856.9
67.5°	1314.2	1352.3	1724.6	2212.9	2432.8	1965.3	1497.8	2086.5	2843.1	2870.8	2003.3
70°	860.6	903.8	1241.5	1684.8	1986.0	1593.0	1120.3	1128.9	1196.5	1210.3	1163.6
72.5°	472.7	498.7	767.1	1118.6	1174.0	952.3	874.4	938.5	985.2	985.2	997.3
75°	244.1	266.7	313.4	368.8	445.0	521.2	630.3	725.5	775.7	779.2	774.0
77.5°	124.7	133.3	168.0	181.8	199.1	232.0	301.3	386.1	431.1	448.5	445.0
80°	58.9	62.3	71.0	83.1	102.2	129.9	162.8	193.9	221.6	225.1	244.1
82.5°	31.2	34.6	38.1	45.0	55.4	69.3	95.2	114.3	131.6	135.1	150.6
85°	12.1	13.9	15.6	17.3	24.2	29.4	39.8	53.7	65.8	65.8	77.9
87.5°	0.0	0.0	0.0	0.0	1.7	3.5	6.9	8.7	12.1	12.1	20.8
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: P637719

CATALOG NUMBER: GWS-SA4D-735-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2	3771.2
2.5°	3809.3	3759.1	3736.6	3700.2	3670.8	3637.9	3611.9	3592.9	3580.7	3573.8	3566.9
5°	3871.6	3795.5	3734.9	3662.1	3611.9	3563.4	3523.6	3495.9	3482.1	3471.7	3464.7
7.5°	3968.6	3866.4	3752.2	3639.6	3551.3	3473.4	3423.2	3393.7	3374.7	3367.8	3362.6
10°	4101.9	3959.9	3771.2	3592.9	3461.3	3376.4	3341.8	3327.9	3329.7	3326.2	3324.5
12.5°	4252.6	4058.6	3766.0	3509.8	3364.3	3314.1	3315.8	3338.3	3364.3	3371.2	3373.0
15°	4415.3	4155.6	3715.8	3402.4	3288.1	3293.3	3338.3	3392.0	3440.5	3459.5	3463.0
17.5°	4591.9	4237.0	3624.0	3284.7	3225.8	3281.2	3364.3	3452.6	3523.6	3554.8	3563.4
20°	4789.3	4306.2	3494.2	3168.7	3166.9	3258.7	3379.9	3495.9	3585.9	3627.5	3634.4
22.5°	4998.8	4349.5	3334.9	3061.3	3106.3	3229.3	3367.8	3489.0	3584.2	3625.8	3634.4
25°	5210.1	4363.4	3160.0	2962.6	3044.0	3182.5	3308.9	3405.9	3495.9	3532.3	3539.2
27.5°	5407.5	4323.6	2993.8	2877.8	2986.8	3113.2	3198.1	3250.0	3312.4	3340.1	3345.3
30°	5608.3	4243.9	2853.5	2810.2	2922.8	3018.0	3056.1	3059.6	3083.8	3083.8	3087.3
32.5°	5810.9	4126.2	2730.6	2744.4	2843.1	2905.5	2910.7	2870.8	2841.4	2792.9	2791.2
35°	6044.7	4006.7	2630.2	2670.0	2749.6	2787.7	2772.1	2696.0	2625.0	2545.3	2541.8
37.5°	6261.1	3883.8	2545.3	2593.8	2644.0	2671.7	2635.3	2543.6	2484.7	2403.3	2391.2
40°	6439.5	3772.9	2463.9	2514.1	2538.4	2562.6	2503.8	2429.3	2438.0	2392.9	2391.2
42.5°	6543.4	3665.6	2387.7	2425.8	2441.4	2458.7	2406.8	2351.4	2398.1	2363.5	2365.2
45°	6619.5	3572.1	2318.5	2332.3	2370.4	2396.4	2347.9	2285.6	2296.0	2162.6	2131.5
47.5°	6706.1	3520.1	2252.7	2238.8	2306.4	2351.4	2276.9	2186.9	2124.6	1993.0	1980.8
50°	6797.9	3501.1	2183.4	2145.3	2226.7	2270.0	2183.4	2070.9	1989.5	1918.5	1911.6
52.5°	6829.0	3499.4	2096.9	2032.8	2114.2	2174.8	2102.0	1987.8	1890.8	1821.5	1818.1
55°	6952.0	3549.6	1986.0	1878.7	1954.9	2079.5	2025.9	1861.4	1783.4	1752.3	1748.8
57.5°	7095.7	3558.2	1811.2	1710.7	1816.3	1963.5	1896.0	1754.0	1669.2	1631.1	1627.6
60°	7036.8	3345.3	1624.2	1582.6	1698.6	1854.4	1792.1	1669.2	1570.5	1534.1	1530.6
62.5°	5362.5	2361.8	1487.4	1471.8	1572.2	1696.9	1684.8	1556.6	1463.1	1437.1	1433.7
65°	3225.8	1658.8	1355.8	1354.0	1425.0	1544.5	1560.1	1456.2	1357.5	1321.1	1321.1
67.5°	1594.7	1269.2	1206.9	1198.2	1243.2	1328.1	1393.9	1309.0	1225.9	1191.3	1186.1
70°	1127.2	1118.6	1097.8	1073.5	1082.2	1116.8	1144.5	1073.5	985.2	950.6	943.7
72.5°	974.8	976.6	962.7	943.7	936.7	912.5	888.3	836.3	782.6	746.3	749.7
75°	756.7	760.1	768.8	761.9	742.8	716.8	690.9	625.1	581.8	547.2	540.2
77.5°	441.5	458.8	486.6	479.6	483.1	446.7	436.3	372.3	332.4	308.2	303.0
80°	249.3	259.7	271.8	280.5	270.1	254.5	232.0	197.4	185.3	168.0	164.5
82.5°	150.6	161.0	166.2	173.2	169.7	148.9	131.6	109.1	98.7	90.0	88.3
85°	76.2	83.1	88.3	91.8	81.4	67.5	60.6	48.5	41.6	36.4	36.4
87.5°	19.0	20.8	24.2	20.8	19.0	8.7	6.9	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)