

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: P638224

Luminaire Tested: GWS-SA4E-735-U-T3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-735-U-T3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30203.8 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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

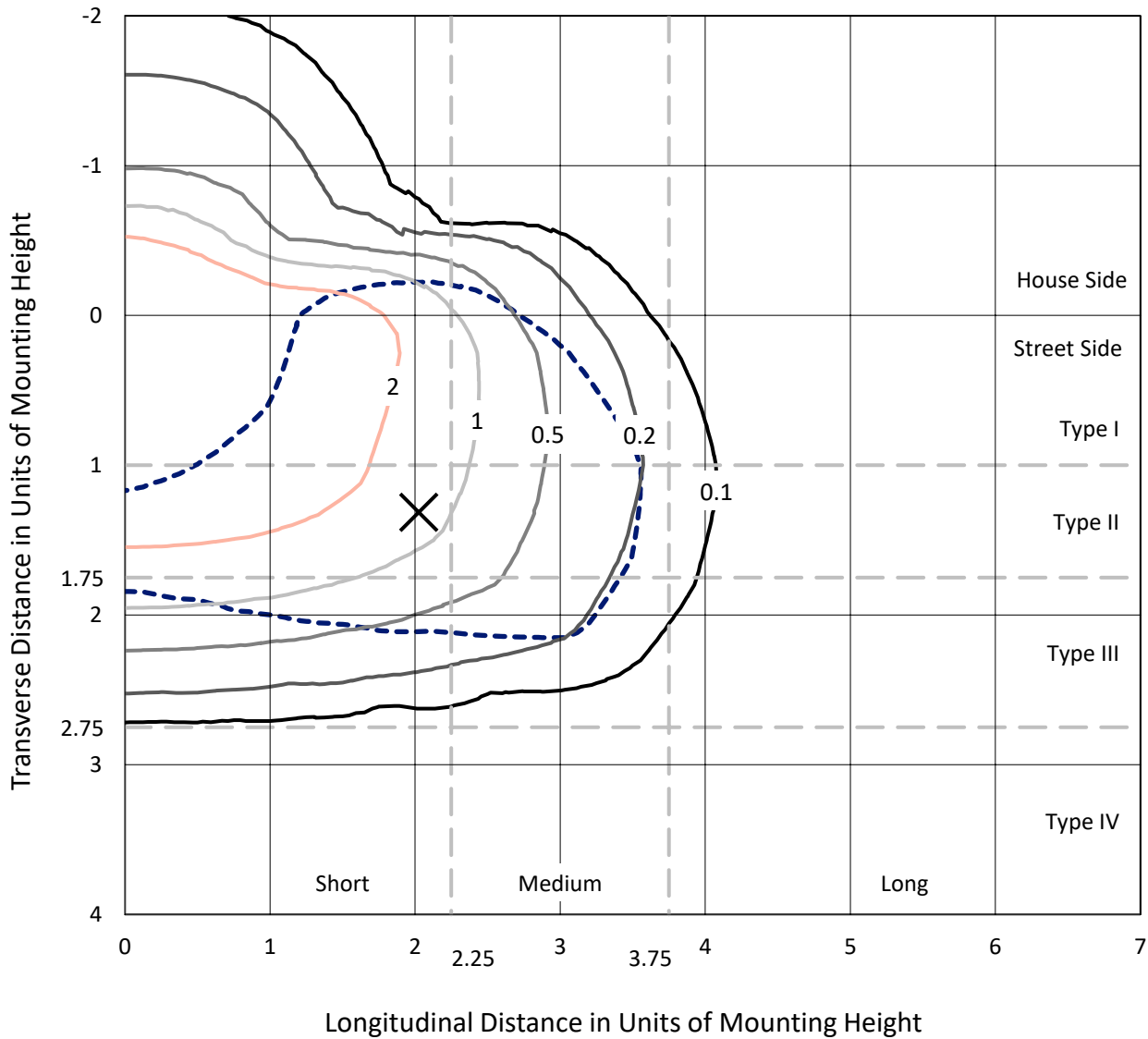


REPORT NUMBER: P638224

CATALOG NUMBER: GWS-SA4E-735-U-T3-W

Iso-Footcandle Lines of Horizontal Illumination

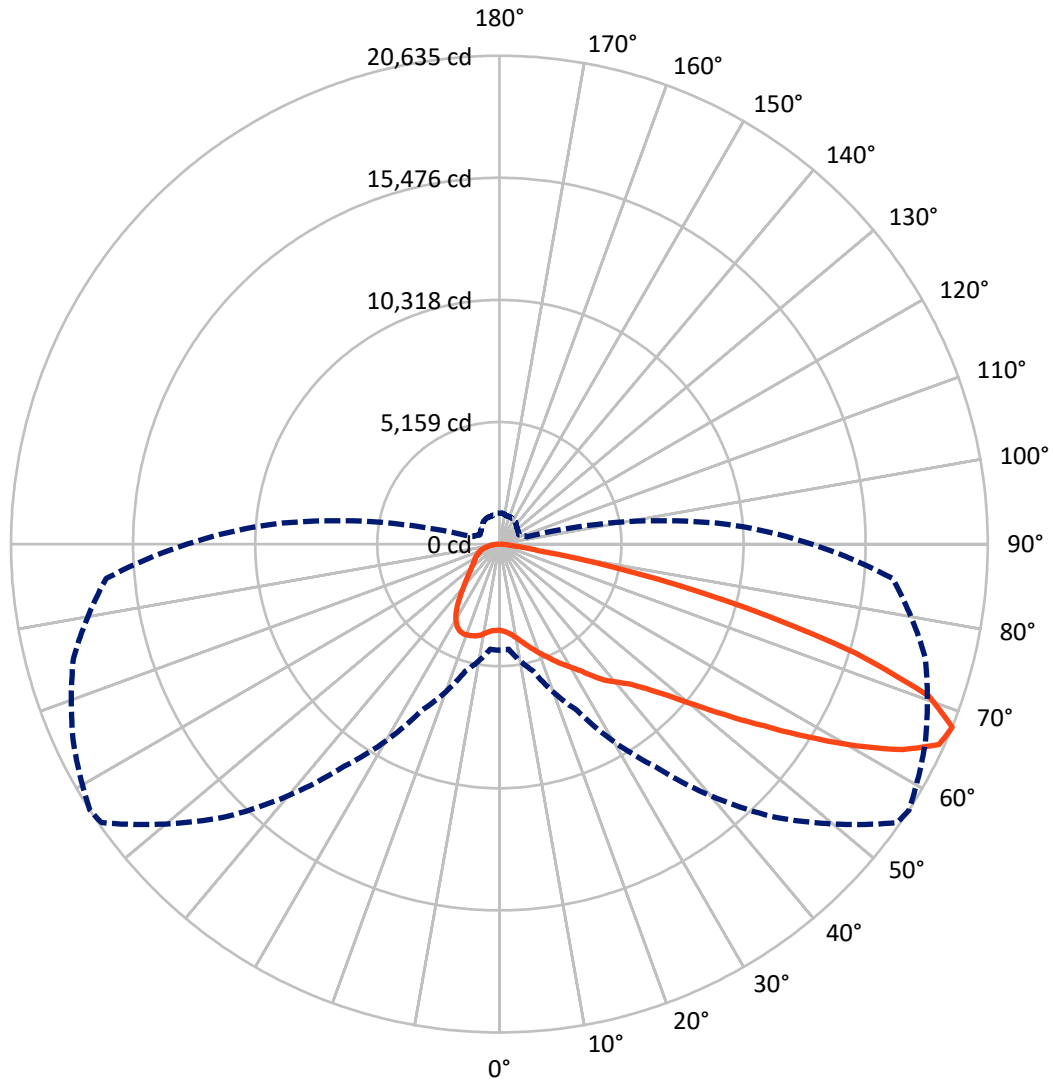
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Short - N/A

REPORT NUMBER: P638224
CATALOG NUMBER: GWS-SA4E-735-U-T3-W

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P638224

CATALOG NUMBER: GWS-SA4E-735-U-T3-W

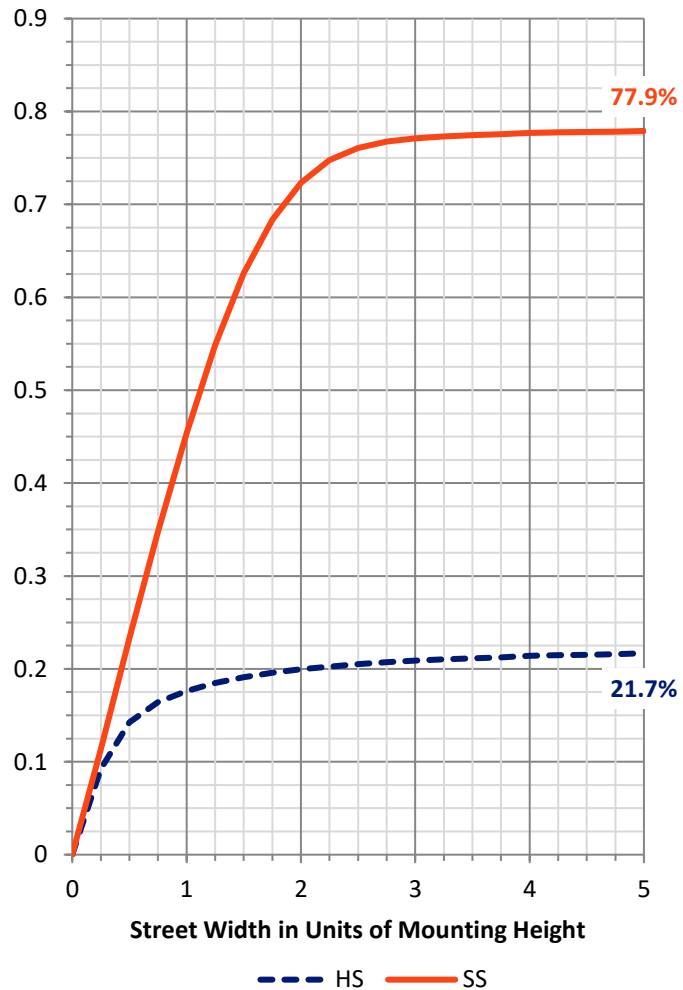
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6640.7	0.0	6640.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	23563.1	0.0	23563.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	30203.8	0.0	30203.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	1.2
10°-20°	1194.9	4.0
20°-30°	2130.3	7.1
30°-40°	3097.2	10.3
40°-50°	4482.7	14.8
50°-60°	7015.3	23.2
60°-70°	8183.8	27.1
70°-80°	3416.2	11.3
80°-90°	322.4	1.1
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°	30203.8	100.0
0°-180°	30203.8	100.0

Coefficient of Utilization



REPORT NUMBER: P638224

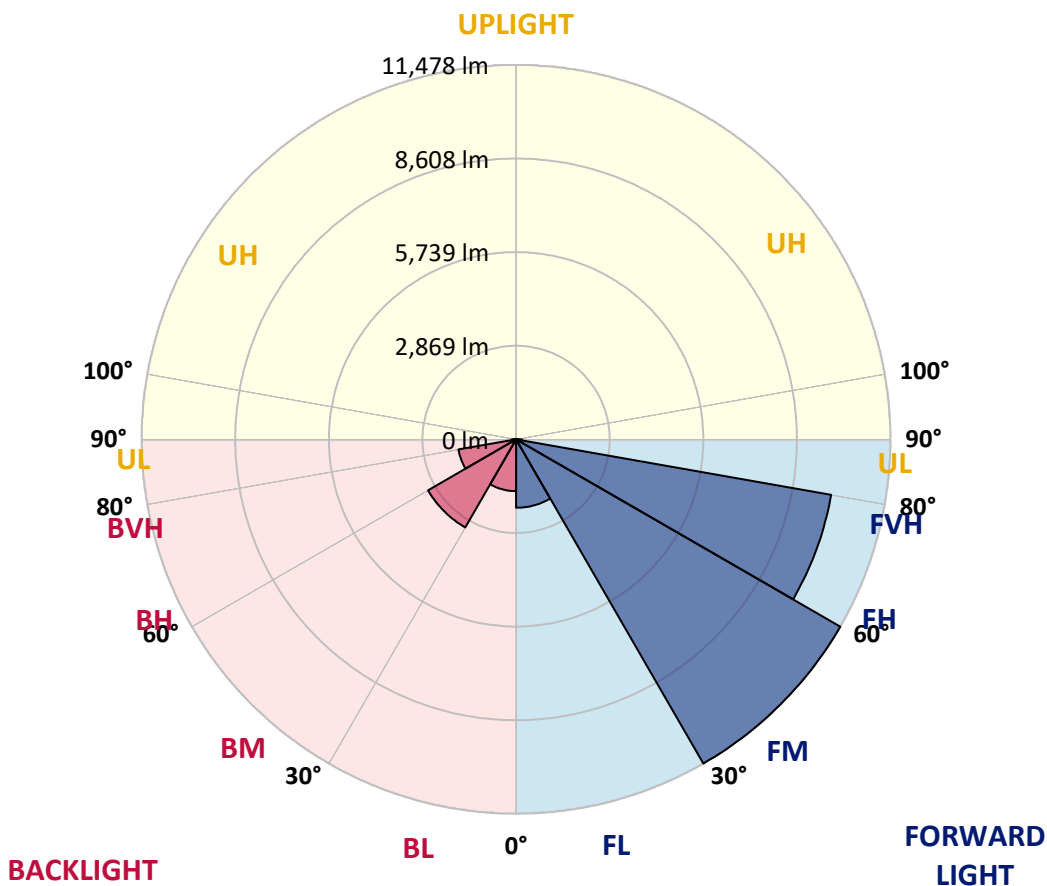
CATALOG NUMBER: GWS-SA4E-735-U-T3-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2098.0	6.9			
FM (30°-60°)	11477.9	38.0			
FH (60°-80°)	9807.7	32.5			G4/12000
FVH (80°-90°)	179.6	0.6			G2/225
BL (0°-30°)	1588.2	5.3	B3/2500		
BM (30°-60°)	3117.3	10.3	B3/5000		
BH (60°-80°)	1792.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	142.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P638224
 CATALOG NUMBER: GWS-SA4E-735-U-T3-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4
2.5°	3691.3	3687.0	3684.8	3697.8	3693.4	3691.3	3691.3	3689.1	3684.8	3667.5	3643.7
5°	3793.0	3784.3	3775.7	3786.5	3777.8	3769.2	3767.0	3762.7	3747.5	3721.6	3684.8
7.5°	3899.0	3890.3	3892.5	3899.0	3892.5	3888.2	3881.7	3877.4	3853.6	3812.4	3762.7
10°	4048.3	4048.3	4052.6	4059.1	4061.3	4054.8	4041.8	4035.3	4007.2	3955.3	3886.0
12.5°	4264.7	4260.3	4260.3	4256.0	4262.5	4256.0	4243.0	4232.2	4197.6	4130.5	4031.0
15°	4550.3	4533.0	4517.8	4489.7	4481.0	4457.2	4461.6	4455.1	4422.6	4331.7	4206.2
17.5°	4855.4	4853.2	4829.4	4773.1	4716.9	4677.9	4686.6	4684.4	4667.1	4543.8	4383.7
20°	5123.7	5134.5	5112.8	5069.6	4993.8	4920.3	4915.9	4926.8	4905.1	4781.8	4558.9
22.5°	5424.4	5415.8	5394.1	5337.9	5281.6	5203.7	5177.7	5169.1	5160.4	5019.8	4738.5
25°	5710.0	5736.0	5707.9	5655.9	5569.4	5485.0	5463.4	5472.0	5448.2	5262.1	4931.1
27.5°	6071.4	6082.2	6064.9	5993.5	5919.9	5800.9	5759.8	5759.8	5751.1	5489.3	5082.5
30°	6456.5	6486.8	6456.5	6398.1	6322.3	6151.4	6062.7	6054.0	6028.1	5723.0	5260.0
32.5°	6843.8	6865.4	6843.8	6787.5	6701.0	6551.7	6424.0	6404.6	6369.9	5978.3	5441.7
35°	7187.8	7207.3	7203.0	7216.0	7144.6	6956.3	6878.4	6869.8	6778.9	6311.5	5688.4
37.5°	7564.3	7588.1	7555.7	7581.6	7553.5	7376.1	7352.3	7309.0	7179.2	6625.3	5948.0
40°	7992.7	8014.4	7962.4	7973.3	7940.8	7841.3	7720.1	7661.7	7469.1	6965.0	6357.0
42.5°	8451.4	8501.2	8525.0	8505.5	8429.8	8373.5	8161.5	8087.9	7927.8	7577.3	7029.9
45°	9115.7	9189.3	9223.9	9174.1	9141.7	9061.6	8802.0	8713.2	8628.9	8440.6	7968.9
47.5°	9831.9	9899.0	10009.3	10030.9	10056.9	9996.3	9630.7	9544.1	9559.2	9537.6	9124.3
50°	10403.1	10459.4	10708.2	10974.3	11195.0	11212.3	10745.0	10651.9	10734.1	10803.4	10515.6
52.5°	10818.5	10868.3	11197.2	11746.8	12246.6	12616.6	12112.4	12006.4	12073.5	12229.3	12097.3
55°	11156.1	11225.3	11569.3	12413.2	13423.6	14007.8	13685.4	13551.3	13523.2	13715.7	13791.5
57.5°	11333.5	11355.1	11837.6	12934.6	14286.9	15373.1	15513.8	15362.3	15094.0	15200.0	15593.8
60°	10928.9	10965.7	11625.6	13068.8	14968.5	16727.6	17433.0	17307.5	16736.3	16794.7	17229.6
62.5°	9810.2	9862.2	10656.2	12430.5	15024.8	17632.0	19205.0	19125.0	18359.0	18043.1	18173.0
65°	7869.4	7886.7	8708.9	10851.0	13906.1	17744.5	20440.5	20421.1	19492.8	18752.8	18196.8
67.5°	4487.5	4457.2	5556.4	7739.6	11476.3	16281.9	20520.6	20635.3	19860.7	18636.0	16682.2
70°	1945.2	1949.5	2455.8	3818.9	7428.0	13159.7	19060.1	19257.0	18796.1	16690.8	13272.2
72.5°	900.1	913.1	1131.6	1653.1	3172.0	8163.7	15541.9	15719.3	15323.4	13358.7	9656.6
75°	636.1	646.9	755.1	947.7	1458.3	3180.6	10396.6	10768.8	10961.3	9992.0	6363.5
77.5°	482.5	497.7	551.7	657.8	900.1	1127.3	4974.4	5861.5	6982.3	6216.3	3278.0
80°	307.2	307.2	365.7	439.2	549.6	586.4	1436.7	1702.8	3416.5	2561.8	1287.4
82.5°	207.7	214.2	248.8	279.1	315.9	333.2	616.7	657.8	986.6	872.0	530.1
85°	110.3	114.7	129.8	127.7	151.5	132.0	259.6	257.5	361.3	396.0	201.2
87.5°	0.0	0.0	2.2	2.2	4.3	6.5	28.1	30.3	75.7	121.2	67.1
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: P638224
 CATALOG NUMBER: GWS-SA4E-735-U-T3-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4	3639.4
2.5°	3656.7	3630.7	3643.7	3639.4	3652.3	3652.3	3628.5	3622.0	3624.2	3598.2	3589.6
5°	3689.1	3658.8	3665.3	3656.7	3669.6	3680.5	3669.6	3669.6	3682.6	3663.2	3652.3
7.5°	3762.7	3728.1	3728.1	3717.2	3732.4	3741.0	3732.4	3745.4	3769.2	3749.7	3738.9
10°	3879.5	3838.4	3840.6	3827.6	3834.1	3829.8	3795.1	3784.3	3790.8	3773.5	3764.8
12.5°	4031.0	3974.7	3974.7	3948.8	3933.6	3888.2	3816.8	3790.8	3795.1	3780.0	3773.5
15°	4176.0	4124.0	4113.2	4061.3	3992.0	3907.7	3842.7	3825.4	3829.8	3814.6	3803.8
17.5°	4346.9	4279.8	4240.9	4145.7	4018.0	3931.5	3866.5	3825.4	3790.8	3756.2	3747.5
20°	4504.8	4420.4	4349.0	4201.9	4046.1	3927.1	3806.0	3704.3	3619.9	3574.4	3563.6
22.5°	4667.1	4558.9	4433.4	4240.9	4044.0	3849.2	3626.4	3472.7	3347.3	3280.2	3293.2
25°	4820.7	4684.4	4513.5	4277.6	3974.7	3676.1	3373.2	3143.9	3001.1	2949.1	2934.0
27.5°	4948.4	4779.6	4587.1	4260.3	3831.9	3427.3	3027.0	2771.7	2633.2	2574.8	2559.7
30°	5091.2	4900.8	4693.1	4180.3	3606.9	3079.0	2635.4	2427.7	2328.1	2271.9	2274.1
32.5°	5255.6	5056.6	4842.4	4026.7	3319.1	2702.5	2313.0	2170.2	2090.1	2033.9	2025.2
35°	5476.3	5279.4	4941.9	3795.1	2953.5	2356.3	2092.3	1975.5	1875.9	1802.4	1787.2
37.5°	5749.0	5614.8	4952.7	3485.7	2561.8	2118.3	1934.4	1808.9	1687.7	1590.3	1579.5
40°	6216.3	6062.7	4864.0	3098.4	2228.6	1964.6	1802.4	1657.4	1516.8	1408.6	1393.4
42.5°	6882.7	6566.8	4673.6	2661.4	1977.6	1843.5	1676.9	1493.0	1350.2	1274.4	1263.6
45°	7730.9	7129.4	4388.0	2250.3	1791.5	1724.5	1544.9	1352.3	1276.6	1222.5	1211.7
47.5°	8769.5	7785.0	4059.1	1930.0	1646.6	1616.3	1410.7	1304.7	1237.6	1192.2	1181.4
50°	10011.5	8620.2	3788.6	1679.0	1516.8	1490.8	1367.5	1276.6	1222.5	1185.7	1177.1
52.5°	11428.7	9548.4	3656.7	1499.4	1404.2	1378.3	1352.3	1270.1	1224.7	1196.5	1185.7
55°	12900.0	10526.4	3533.3	1361.0	1309.0	1324.2	1354.5	1291.7	1257.1	1220.3	1209.5
57.5°	14321.6	11443.8	3230.4	1252.8	1239.8	1298.2	1365.3	1313.4	1272.3	1235.5	1222.5
60°	15301.7	11945.8	2717.6	1166.2	1187.9	1265.8	1337.2	1280.9	1229.0	1213.8	1207.3
62.5°	15565.7	11885.2	2109.6	1077.5	1125.1	1194.4	1263.6	1226.8	1172.7	1196.5	1198.7
65°	14949.0	11236.1	1583.8	991.0	1042.9	1101.3	1187.9	1172.7	1153.3	1218.2	1220.3
67.5°	13202.9	9641.5	1207.3	915.2	958.5	1029.9	1164.1	1226.8	1231.1	1313.4	1304.7
70°	9989.8	7203.0	945.5	843.8	893.6	1029.9	1239.8	1267.9	1216.0	1291.7	1274.4
72.5°	6906.5	4753.7	804.9	781.1	813.6	982.3	1237.6	1237.6	1181.4	1181.4	1148.9
75°	4290.6	2795.5	701.0	701.0	701.0	859.0	1203.0	1140.3	1040.7	995.3	969.3
77.5°	2118.3	1358.8	588.5	610.2	586.4	718.4	982.3	932.6	872.0	824.4	807.1
80°	904.4	679.4	476.0	499.8	471.7	540.9	778.9	768.1	709.7	646.9	627.5
82.5°	415.4	350.5	380.8	391.6	344.0	406.8	569.1	569.1	536.6	450.1	417.6
85°	177.4	186.1	264.0	264.0	216.4	229.4	305.1	289.9	259.6	212.0	194.7
87.5°	60.6	90.9	134.1	116.8	45.4	19.5	10.8	4.3	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)