

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: P635728

Luminaire Tested: GWS-SA3E-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20831 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

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

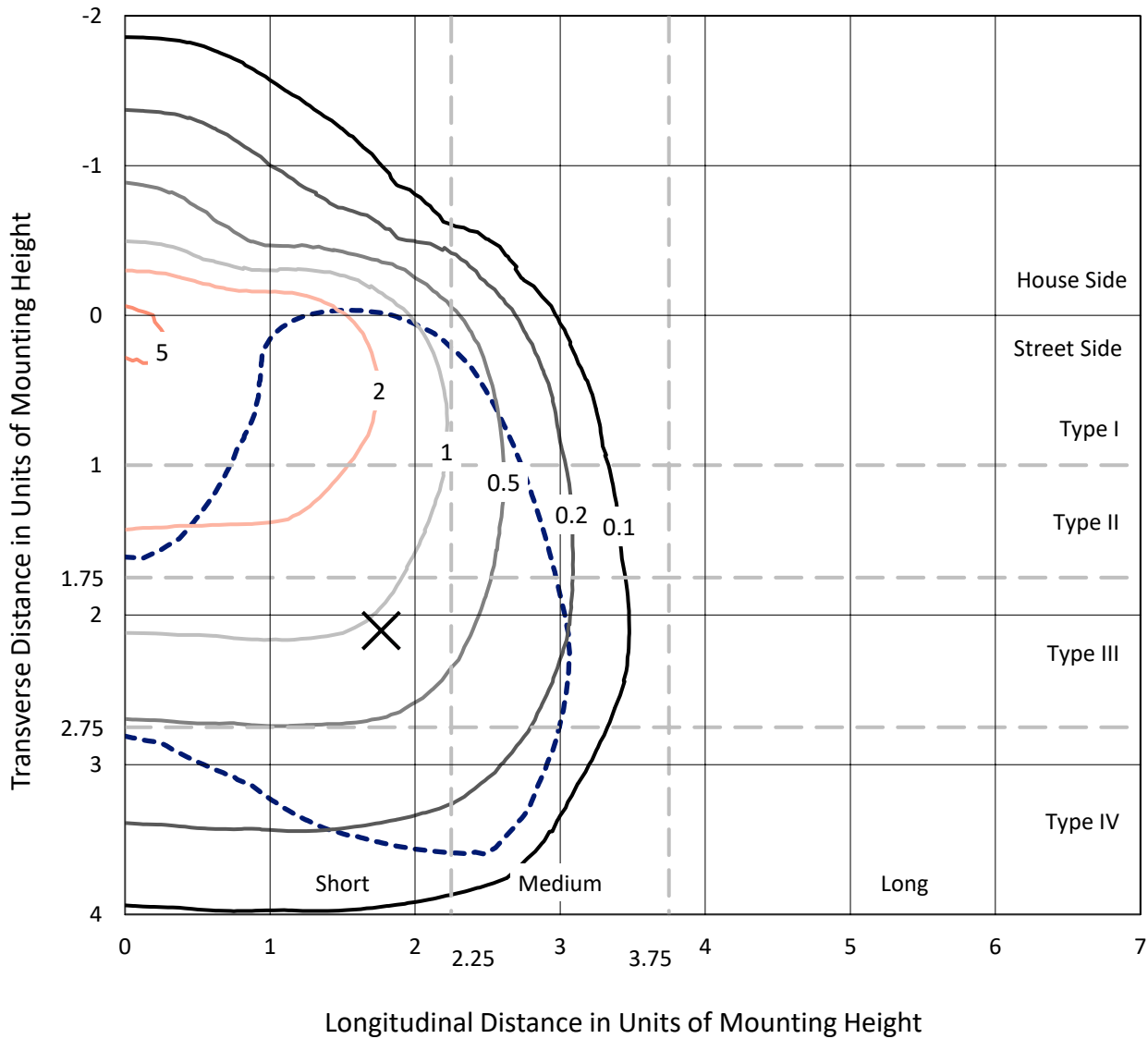


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Iso-Footcandle Lines of Horizontal Illumination

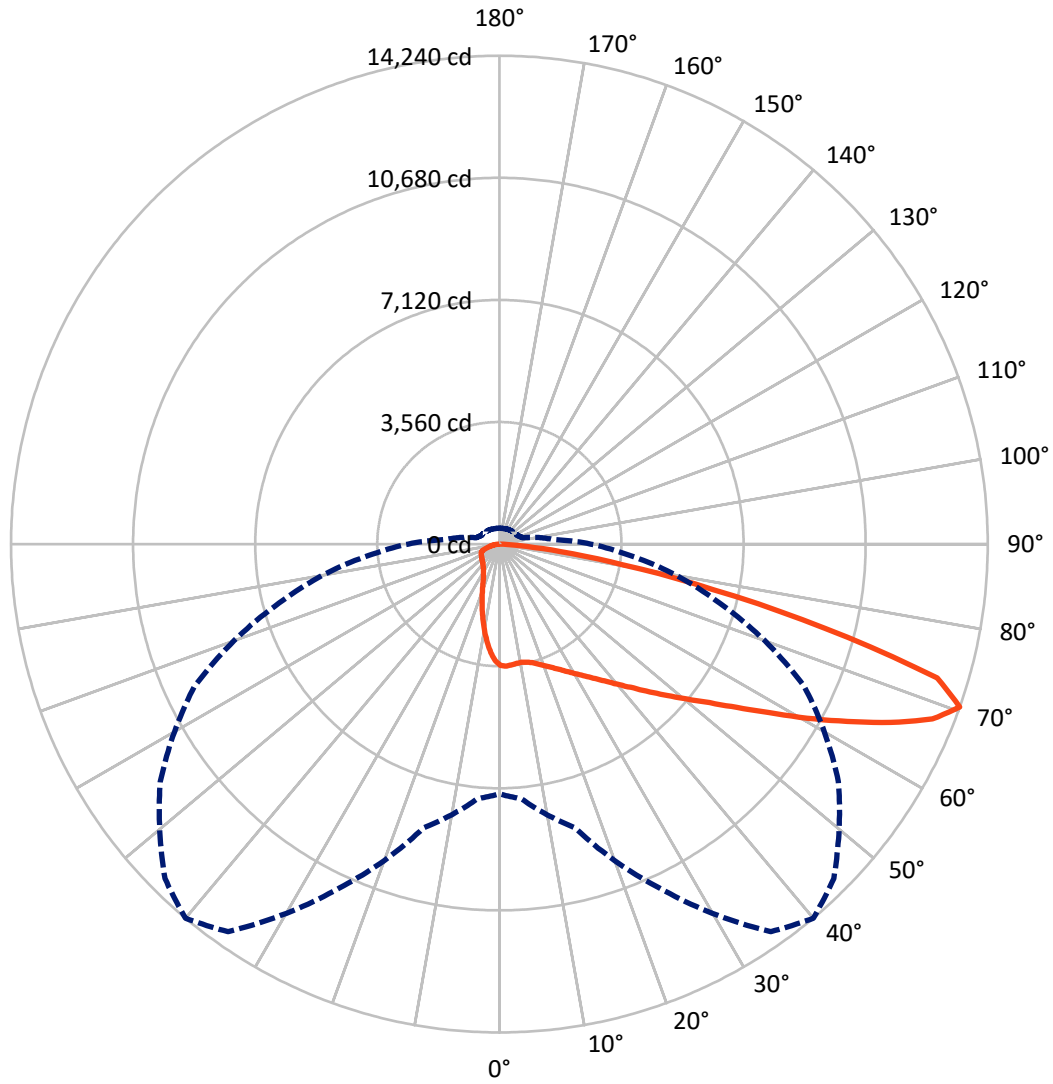
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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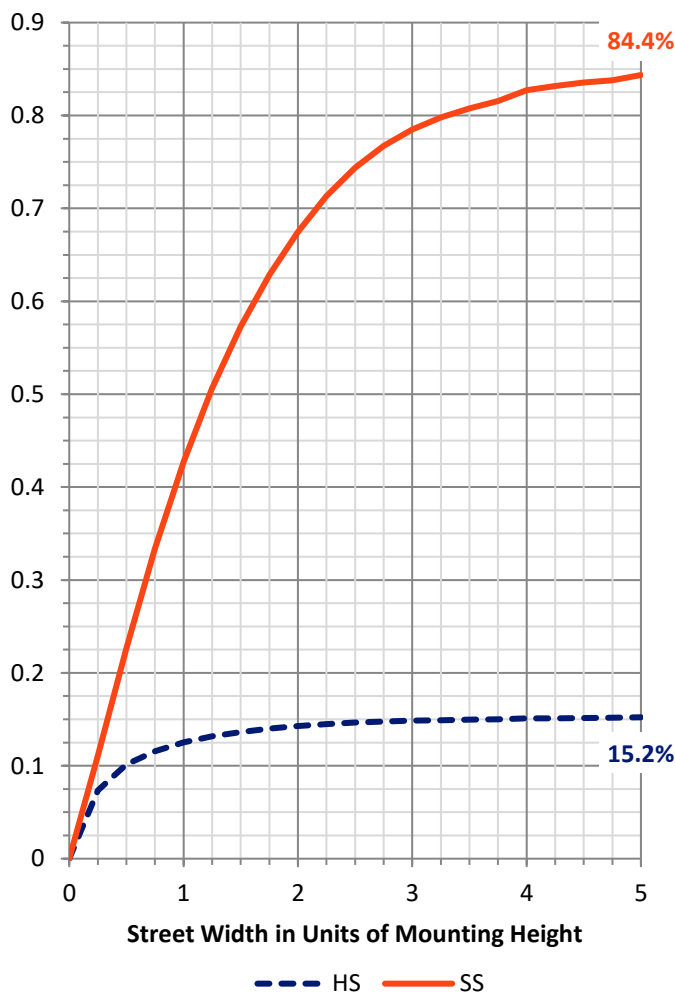
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3208.5	0.0	3208.5
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	17622.5	0.0	17622.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	20831.0	0.0	20831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.5	1.5
10°-20°	814.5	3.9
20°-30°	1279.0	6.1
30°-40°	1923.0	9.2
40°-50°	2968.2	14.2
50°-60°	4408.0	21.2
60°-70°	5556.2	26.7
70°-80°	3213.1	15.4
80°-90°	356.6	1.7
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°	20831.0	100.0
0°-180°	20831.0	100.0

Coefficient of Utilization



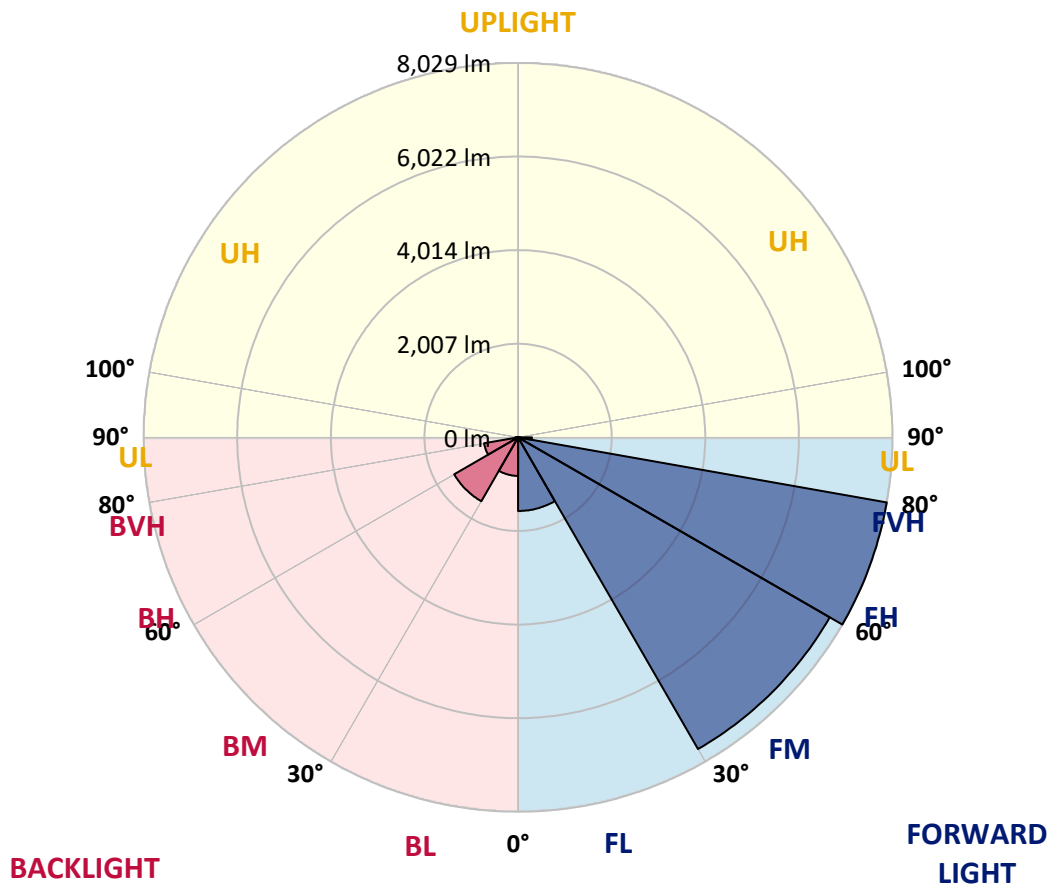
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.1	7.6			
FM (30°-60°)	7717.6	37.0			
FH (60°-80°)	8028.7	38.5			G4/12000
FVH (80°-90°)	297.0	1.4			G3/500
BL (0°-30°)	826.9	4.0	B2/1000		
BM (30°-60°)	1581.5	7.6	B2/2500		
BH (60°-80°)	740.5	3.6	B2/1000		G2/1000
BVH (80°-90°)	59.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3
2.5°	3559.1	3565.3	3570.0	3576.2	3573.1	3563.8	3571.5	3571.5	3554.4	3535.8	3518.7
5°	3563.8	3571.5	3570.0	3568.4	3556.0	3540.5	3540.5	3531.1	3501.6	3472.0	3444.1
7.5°	3554.4	3552.9	3551.3	3546.7	3532.7	3515.6	3512.5	3493.8	3454.9	3414.5	3374.1
10°	3512.5	3510.9	3515.6	3526.5	3523.3	3507.8	3507.8	3490.7	3445.6	3395.8	3343.0
12.5°	3478.3	3478.3	3496.9	3526.5	3537.3	3531.1	3532.7	3520.2	3468.9	3409.8	3347.6
15°	3482.9	3484.5	3524.9	3573.1	3593.3	3588.7	3590.2	3576.2	3518.7	3459.6	3375.6
17.5°	3514.0	3521.8	3591.8	3658.6	3685.1	3678.8	3668.0	3644.6	3579.3	3512.5	3409.8
20°	3579.3	3591.8	3681.9	3765.9	3797.0	3783.0	3764.4	3717.7	3646.2	3573.1	3447.2
22.5°	3708.4	3716.2	3815.7	3898.1	3923.0	3905.8	3868.5	3801.7	3719.3	3643.1	3492.3
25°	3890.3	3899.6	3994.5	4070.7	4064.4	4044.2	3992.9	3910.5	3812.6	3731.7	3557.6
27.5°	4106.4	4122.0	4215.3	4275.9	4235.5	4205.9	4148.4	4048.9	3938.5	3865.4	3657.1
30°	4342.8	4349.0	4428.3	4488.9	4426.7	4386.3	4316.3	4209.0	4109.5	4055.1	3806.3
32.5°	4571.3	4577.6	4646.0	4680.2	4614.9	4585.3	4524.7	4411.2	4341.2	4311.7	4028.7
35°	4812.3	4810.8	4866.8	4896.3	4829.4	4817.0	4754.8	4667.7	4655.3	4694.2	4353.7
37.5°	5053.3	5039.4	5068.9	5107.8	5070.5	5082.9	5042.5	5012.9	5061.1	5162.2	4785.9
40°	5246.2	5246.2	5277.2	5325.4	5337.9	5392.3	5369.0	5407.9	5563.3	5804.4	5320.8
42.5°	5417.2	5418.7	5484.0	5558.7	5648.9	5732.8	5751.5	5852.6	6174.4	6552.2	5992.5
45°	5596.0	5597.6	5686.2	5795.0	5986.3	6146.4	6183.7	6410.8	6871.0	7331.2	6721.7
47.5°	5802.8	5785.7	5908.5	6090.4	6362.6	6592.7	6689.1	7010.9	7592.5	8158.4	7409.0
50°	6036.0	6000.3	6137.1	6451.2	6787.0	7102.7	7264.4	7632.9	8366.8	8921.9	8055.8
52.5°	6298.8	6278.6	6421.6	6804.1	7317.2	7681.1	7900.3	8383.9	9119.3	9682.2	8568.9
55°	6625.3	6577.1	6783.9	7270.6	7939.2	8402.5	8662.2	9127.1	9941.9	10372.6	8960.7
57.5°	6982.9	6930.1	7206.8	7853.7	8747.7	9256.2	9581.1	9963.6	10716.2	10901.2	9190.9
60°	7368.6	7351.5	7679.5	8537.8	9711.8	10302.6	10537.4	10884.1	11389.5	11207.5	9133.3
62.5°	7721.5	7715.3	8192.6	9279.5	10733.3	11383.2	11569.8	11661.6	11874.6	11187.3	8676.2
65°	8093.1	8146.0	8791.3	10139.3	11904.1	12541.6	12619.4	12386.1	12037.8	10657.1	7740.2
67.5°	8139.8	8242.4	9167.5	10944.8	13014.3	13616.0	13553.9	12661.4	11555.8	9181.5	6067.1
70°	7279.9	7458.7	8567.4	11067.6	13796.4	14239.6	13790.2	12068.9	9806.6	6651.8	3815.7
72.5°	6082.7	6236.6	7216.2	9438.1	12787.3	13351.7	12743.8	10215.5	6930.1	3815.7	1943.6
75°	4734.6	4913.4	5816.8	7502.3	9573.4	9798.8	9494.1	7124.4	3809.4	1573.5	883.2
77.5°	2889.0	3018.0	3720.8	5082.9	6698.4	6361.0	5390.8	3994.5	1671.5	754.1	545.8
80°	1278.1	1357.4	1833.2	2730.4	3870.1	3658.6	2884.3	1705.7	914.3	478.9	380.9
82.5°	685.7	737.0	903.4	1080.6	1699.5	1777.2	1441.4	982.7	491.3	273.7	217.7
85°	301.6	331.2	410.5	391.8	558.2	548.9	553.5	674.8	234.8	125.9	141.5
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	17.1	90.2	23.3	37.3	32.7
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°	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3
2.5°	3500.0	3472.0	3464.3	3454.9	3437.8	3408.3	3386.5	3361.6	3350.8	3338.3	3339.9
5°	3413.0	3378.7	3346.1	3304.1	3251.2	3192.2	3151.7	3105.1	3080.2	3056.9	3063.1
7.5°	3338.3	3285.5	3218.6	3130.0	3035.1	2929.4	2843.9	2777.0	2731.9	2700.8	2716.4
10°	3291.7	3229.5	3112.9	2968.3	2808.1	2646.4	2523.6	2408.5	2337.0	2281.0	2277.9
12.5°	3282.3	3201.5	3032.0	2822.1	2590.4	2374.3	2193.9	2038.4	1943.6	1873.6	1900.1
15°	3291.7	3189.1	2962.0	2686.8	2394.5	2102.2	1878.3	1699.5	1586.0	1522.2	1517.6
17.5°	3302.6	3176.6	2882.7	2540.7	2189.3	1855.0	1595.3	1405.6	1289.0	1225.2	1226.8
20°	3311.9	3158.0	2789.4	2380.5	1980.9	1624.8	1355.9	1175.5	1071.3	1024.7	1032.4
22.5°	3327.4	3139.3	2689.9	2209.5	1767.9	1402.5	1166.2	1020.0	957.8	926.7	928.3
25°	3357.0	3128.4	2587.3	2022.9	1558.0	1225.2	1035.5	937.6	898.7	880.1	878.5
27.5°	3417.6	3137.7	2480.0	1842.5	1368.3	1090.0	951.6	887.8	861.4	849.0	847.4
30°	3518.7	3175.1	2386.7	1659.1	1205.0	984.2	894.1	855.2	839.6	828.7	827.2
32.5°	3672.6	3245.0	2285.7	1488.0	1072.9	906.5	849.0	828.7	817.9	811.6	811.6
35°	3905.8	3372.5	2186.2	1338.7	970.2	845.9	813.2	805.4	796.1	793.0	796.1
37.5°	4241.7	3576.2	2096.0	1208.1	897.2	799.2	774.3	777.4	769.7	774.3	779.0
40°	4667.7	3848.3	2019.8	1100.9	842.7	765.0	740.1	751.0	746.3	751.0	758.8
42.5°	5207.3	4185.7	1962.3	1016.9	803.9	737.0	713.7	724.6	721.5	727.7	735.5
45°	5809.0	4630.4	1935.8	957.8	775.9	716.8	691.9	699.7	696.6	701.2	709.0
47.5°	6385.9	5034.7	1959.1	923.6	752.6	699.7	673.3	676.4	674.8	673.3	677.9
50°	6883.4	5356.5	2026.0	912.7	737.0	682.6	657.7	659.3	654.6	645.3	648.4
52.5°	7289.3	5614.7	2066.4	912.7	729.2	663.9	640.6	642.2	632.8	620.4	622.0
55°	7556.7	5718.8	2033.8	911.2	726.1	648.4	623.5	625.1	615.7	600.2	601.7
57.5°	7632.9	5617.8	1896.9	894.1	723.0	635.9	606.4	609.5	603.3	586.2	586.2
60°	7419.9	5247.7	1646.6	855.2	715.2	628.2	594.0	598.6	595.5	578.4	578.4
62.5°	6861.7	4590.0	1348.1	796.1	693.5	618.8	583.1	592.4	600.2	590.9	589.3
65°	5816.8	3677.3	1096.2	730.8	665.5	603.3	567.5	590.9	608.0	620.4	620.4
67.5°	4364.5	2632.4	894.1	662.4	623.5	572.2	547.3	569.1	581.5	589.3	594.0
70°	2660.4	1548.7	704.4	583.1	562.9	525.5	506.9	485.1	468.0	464.9	466.5
72.5°	1301.4	886.3	572.2	496.0	480.5	446.2	404.3	394.9	387.2	382.5	380.9
75°	716.8	617.3	472.7	412.0	384.1	342.1	332.7	317.2	314.1	307.9	309.4
77.5°	506.9	486.7	390.3	334.3	292.3	270.5	275.2	264.3	264.3	259.7	258.1
80°	380.9	382.5	300.1	244.1	216.1	208.4	213.0	213.0	209.9	208.4	206.8
82.5°	241.0	272.1	202.1	157.0	153.9	155.5	153.9	152.4	155.5	150.8	149.3
85°	166.4	195.9	122.8	93.3	93.3	91.7	94.8	93.3	96.4	91.7	91.7
87.5°	37.3	87.1	45.1	28.0	29.5	28.0	29.5	31.1	34.2	35.8	35.8
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)