

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: P637213

Luminaire Tested: GWS-SA4C-735-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637213
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-SA4C-735-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18387.3 lumens
Efficiency: N/A
Efficacy: 143.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

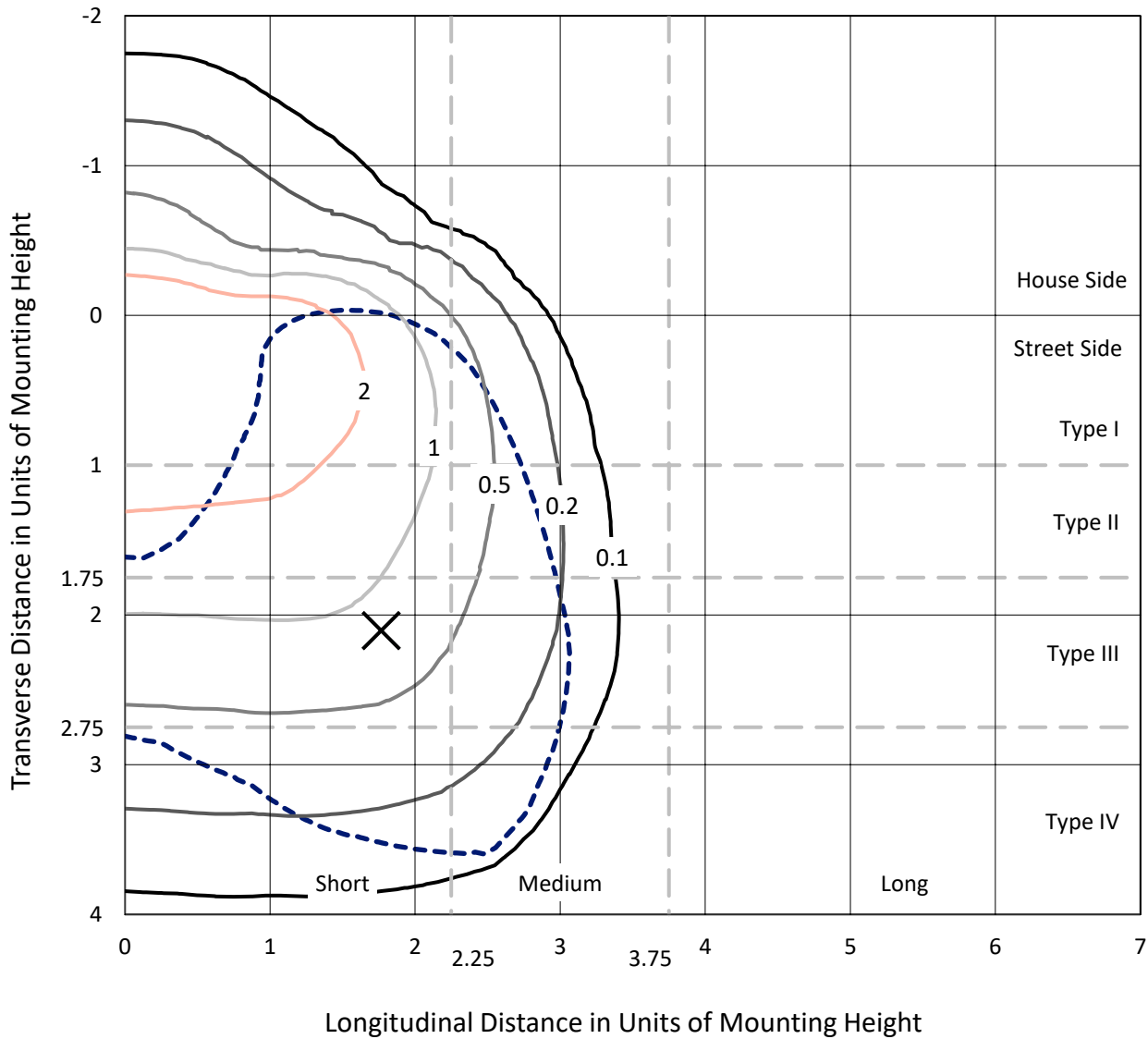
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

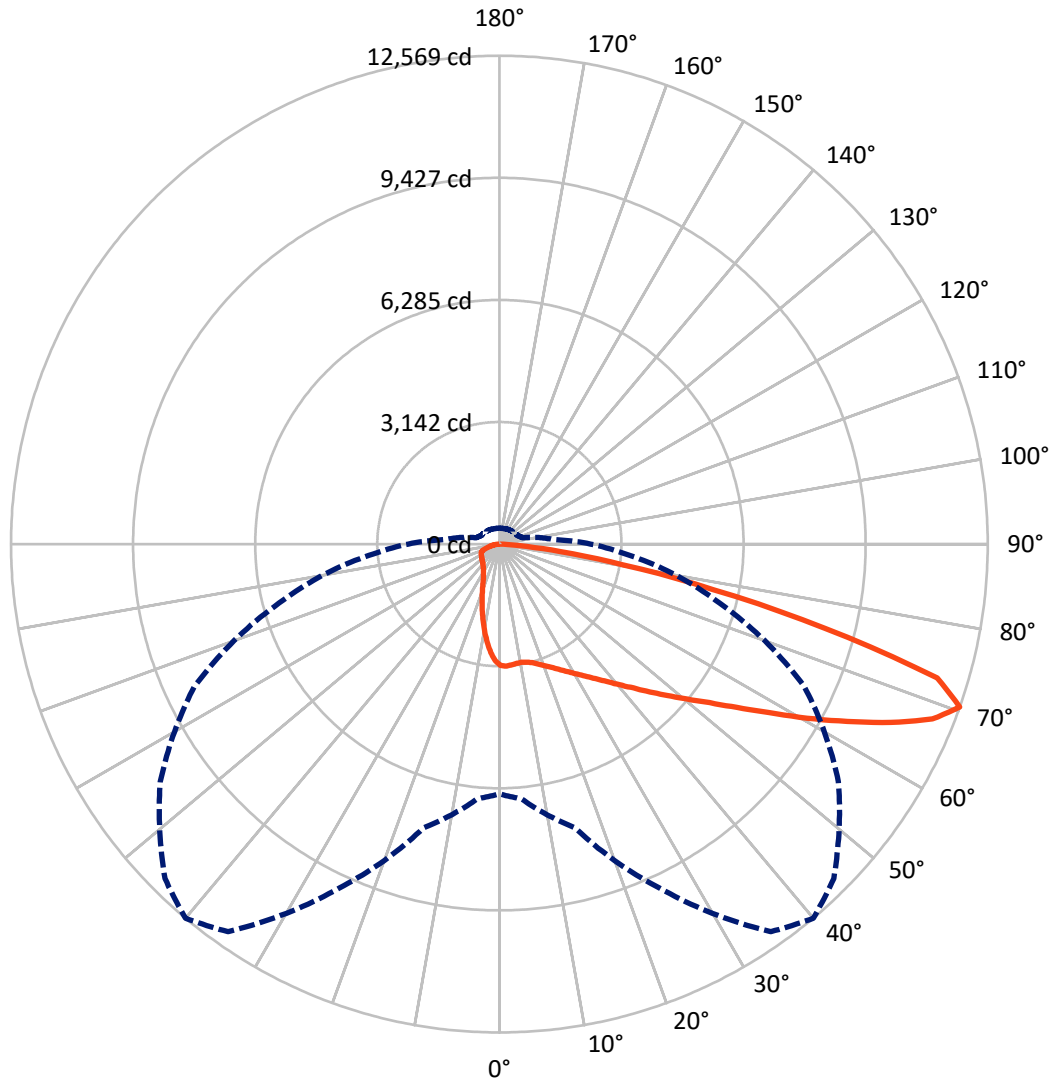
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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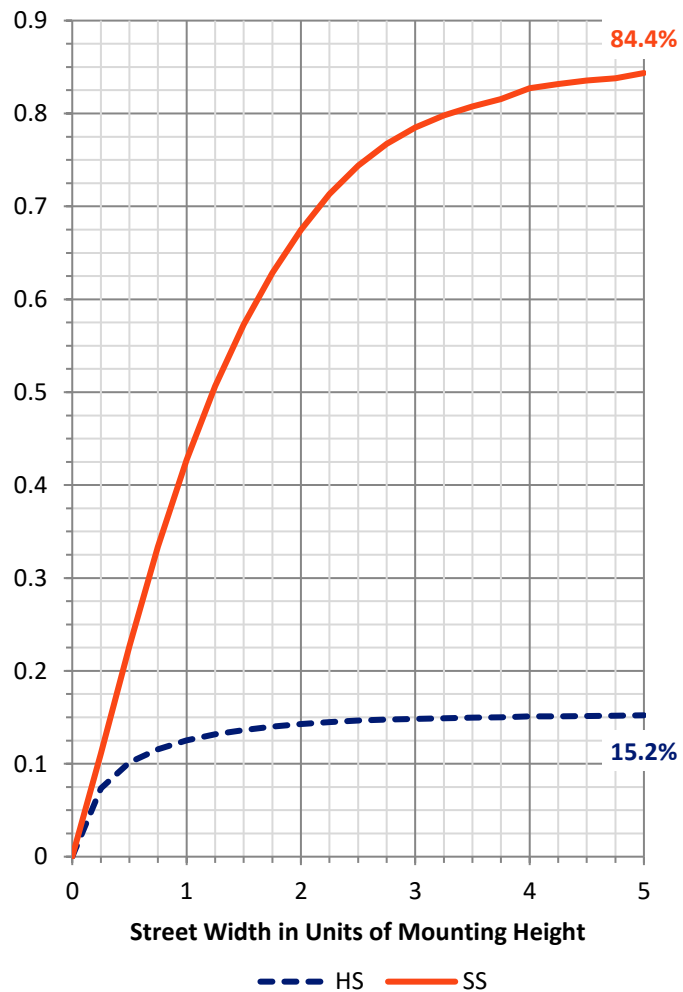
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2832.1	0.0	2832.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	15555.2	0.0	15555.2
	% Fixture	84.6	0.0	84.6
Total	Lumens	18387.3	0.0	18387.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	1.5
10°-20°	719.0	3.9
20°-30°	1128.9	6.1
30°-40°	1697.4	9.2
40°-50°	2620.0	14.2
50°-60°	3890.9	21.2
60°-70°	4904.4	26.7
70°-80°	2836.2	15.4
80°-90°	314.8	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°	18387.3	100.0
0°-180°	18387.3	100.0

Coefficient of Utilization



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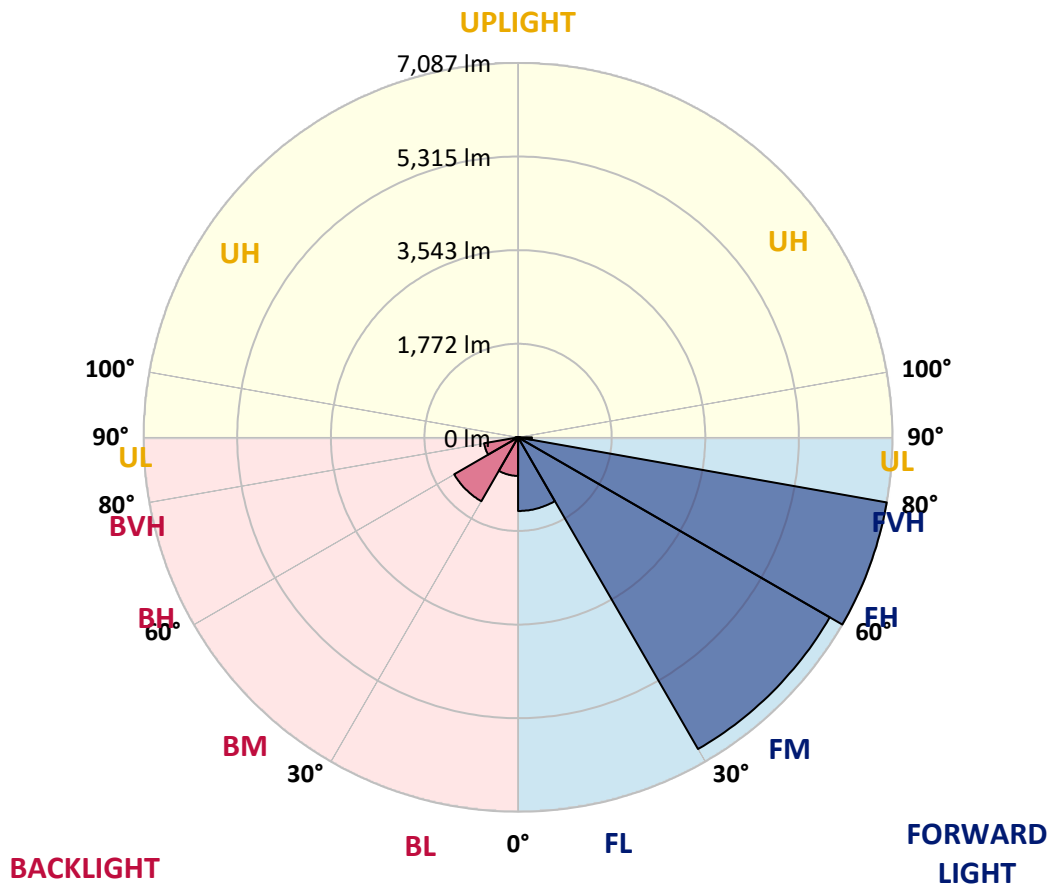
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1393.9	7.6			
FM (30°-60°)	6812.3	37.0			
FH (60°-80°)	7086.9	38.5			G3/7500
FVH (80°-90°)	262.1	1.4			G3/500
BL (0°-30°)	729.9	4.0	B2/1000		
BM (30°-60°)	1396.0	7.6	B2/2500		
BH (60°-80°)	653.6	3.6	B2/1000		G2/1000
BVH (80°-90°)	52.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4
2.5°	3141.6	3147.1	3151.2	3156.7	3153.9	3145.7	3152.6	3152.6	3137.5	3121.0	3105.9
5°	3145.7	3152.6	3151.2	3149.8	3138.8	3125.1	3125.1	3116.9	3090.8	3064.7	3040.0
7.5°	3137.5	3136.1	3134.7	3130.6	3118.3	3103.2	3100.4	3083.9	3049.6	3013.9	2978.3
10°	3100.4	3099.0	3103.2	3112.8	3110.0	3096.3	3096.3	3081.2	3041.4	2997.5	2950.8
12.5°	3070.2	3070.2	3086.7	3112.8	3122.4	3116.9	3118.3	3107.3	3062.0	3009.8	2954.9
15°	3074.3	3075.7	3111.4	3153.9	3171.8	3167.7	3169.0	3156.7	3105.9	3053.8	2979.6
17.5°	3101.8	3108.6	3170.4	3229.4	3252.8	3247.3	3237.7	3217.1	3159.4	3100.4	3009.8
20°	3159.4	3170.4	3250.0	3324.1	3351.6	3339.2	3322.8	3281.6	3218.4	3153.9	3042.8
22.5°	3273.3	3280.2	3368.0	3440.8	3462.7	3447.7	3414.7	3355.7	3283.0	3215.7	3082.6
25°	3433.9	3442.2	3525.9	3593.1	3587.6	3569.8	3524.5	3451.8	3365.3	3293.9	3140.2
27.5°	3624.7	3638.4	3720.8	3774.3	3738.6	3712.5	3661.8	3573.9	3476.5	3412.0	3228.1
30°	3833.3	3838.8	3908.8	3962.3	3907.4	3871.7	3810.0	3715.3	3627.4	3579.4	3359.8
32.5°	4035.1	4040.6	4100.9	4131.1	4073.5	4047.4	3993.9	3893.7	3831.9	3805.9	3556.1
35°	4247.8	4246.4	4295.8	4321.9	4262.9	4251.9	4197.0	4120.2	4109.2	4143.5	3842.9
37.5°	4460.5	4448.2	4474.3	4508.6	4475.6	4486.6	4450.9	4424.9	4467.4	4556.6	4224.5
40°	4630.7	4630.7	4658.2	4700.7	4711.7	4759.7	4739.1	4773.5	4910.7	5123.4	4696.6
42.5°	4781.7	4783.1	4840.7	4906.6	4986.2	5060.3	5076.8	5166.0	5450.1	5783.6	5289.5
45°	4939.5	4940.9	5019.1	5115.2	5284.0	5425.4	5458.3	5658.7	6065.0	6471.2	5933.2
47.5°	5122.1	5107.0	5215.4	5376.0	5616.2	5819.3	5904.4	6188.5	6701.8	7201.4	6539.8
50°	5327.9	5296.4	5417.1	5694.4	5990.8	6269.5	6412.2	6737.5	7385.3	7875.2	7110.8
52.5°	5559.9	5542.0	5668.3	6005.9	6458.9	6780.0	6973.5	7400.4	8049.5	8546.4	7563.7
55°	5848.1	5805.6	5988.1	6417.7	7007.8	7416.8	7646.0	8056.4	8775.6	9155.8	7909.6
57.5°	6163.8	6117.1	6361.4	6932.4	7721.5	8170.3	8457.2	8794.8	9459.1	9622.4	8112.7
60°	6504.1	6489.0	6778.6	7536.2	8572.5	9094.0	9301.2	9607.3	10053.4	9892.8	8061.9
62.5°	6815.7	6810.2	7231.6	8190.9	9474.2	10047.9	10212.6	10293.5	10481.6	9874.9	7658.4
65°	7143.7	7190.4	7760.0	8949.9	10507.6	11070.4	11139.0	10933.1	10625.7	9406.9	6832.2
67.5°	7184.9	7275.5	8092.1	9660.8	11487.6	12018.7	11963.8	11176.0	10200.2	8104.4	5355.4
70°	6425.9	6583.7	7562.3	9769.3	12177.9	12569.1	12172.5	10653.1	8656.2	5871.4	3368.0
72.5°	5369.1	5505.0	6369.6	8330.9	11287.2	11785.4	11248.8	9017.1	6117.1	3368.0	1715.6
75°	4179.2	4337.0	5134.4	6622.2	8450.3	8649.3	8380.3	6288.7	3362.6	1388.9	779.6
77.5°	2550.1	2664.0	3284.3	4486.6	5912.6	5614.8	4758.4	3525.9	1475.4	665.6	481.7
80°	1128.2	1198.2	1618.1	2410.1	3416.1	3229.4	2545.9	1505.6	807.0	422.7	336.3
82.5°	605.3	650.6	797.4	953.9	1500.1	1568.7	1272.3	867.4	433.7	241.6	192.1
85°	266.3	292.3	362.3	345.9	492.7	484.5	488.6	595.7	207.2	111.2	124.9
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	15.1	79.6	20.6	32.9	28.8
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°	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4	3122.4
2.5°	3089.4	3064.7	3057.9	3049.6	3034.5	3008.5	2989.2	2967.3	2957.7	2946.7	2948.1
5°	3012.6	2982.4	2953.6	2916.5	2869.8	2817.7	2782.0	2740.8	2718.9	2698.3	2703.8
7.5°	2946.7	2900.0	2841.0	2762.8	2679.1	2585.7	2510.3	2451.2	2411.4	2384.0	2397.7
10°	2905.5	2850.6	2747.7	2620.0	2478.7	2335.9	2227.5	2126.0	2062.8	2013.4	2010.7
12.5°	2897.3	2825.9	2676.3	2491.0	2286.5	2095.8	1936.6	1799.3	1715.6	1653.8	1677.2
15°	2905.5	2814.9	2614.6	2371.6	2113.6	1855.6	1657.9	1500.1	1399.9	1343.7	1339.5
17.5°	2915.1	2804.0	2544.6	2242.6	1932.4	1637.4	1408.2	1240.7	1137.8	1081.5	1082.9
20°	2923.4	2787.5	2462.2	2101.3	1748.5	1434.2	1196.8	1037.6	945.6	904.5	911.3
22.5°	2937.1	2771.0	2374.4	1950.3	1560.5	1238.0	1029.4	900.3	845.4	818.0	819.4
25°	2963.2	2761.4	2283.8	1785.6	1375.2	1081.5	914.1	827.6	793.3	776.8	775.4
27.5°	3016.7	2769.6	2189.1	1626.4	1207.8	962.1	840.0	783.7	760.3	749.4	748.0
30°	3105.9	2802.6	2106.7	1464.4	1063.7	868.8	789.2	754.9	741.1	731.5	730.2
32.5°	3241.8	2864.3	2017.5	1313.5	947.0	800.2	749.4	731.5	721.9	716.4	716.4
35°	3447.7	2976.9	1929.7	1181.7	856.4	746.6	717.8	710.9	702.7	700.0	702.7
37.5°	3744.1	3156.7	1850.1	1066.4	791.9	705.5	683.5	686.2	679.4	683.5	687.6
40°	4120.2	3396.9	1782.8	971.7	743.9	675.3	653.3	662.9	658.8	662.9	669.8
42.5°	4596.4	3694.7	1732.1	897.6	709.6	650.6	630.0	639.6	636.8	642.3	649.2
45°	5127.6	4087.2	1708.7	845.4	684.9	632.7	610.8	617.6	614.9	619.0	625.8
47.5°	5636.7	4444.1	1729.3	815.2	664.3	617.6	594.3	597.0	595.7	594.3	598.4
50°	6075.9	4728.2	1788.3	805.6	650.6	602.5	580.6	581.9	577.8	569.6	572.3
52.5°	6434.1	4956.0	1824.0	805.6	643.7	586.0	565.5	566.8	558.6	547.6	549.0
55°	6670.2	5048.0	1795.2	804.3	640.9	572.3	550.4	551.7	543.5	529.8	531.1
57.5°	6737.5	4958.7	1674.4	789.2	638.2	561.3	535.3	538.0	532.5	517.4	517.4
60°	6549.4	4632.1	1453.4	754.9	631.3	554.5	524.3	528.4	525.7	510.6	510.6
62.5°	6056.7	4051.5	1189.9	702.7	612.1	546.2	514.7	522.9	529.8	521.5	520.2
65°	5134.4	3245.9	967.6	645.1	587.4	532.5	501.0	521.5	536.6	547.6	547.6
67.5°	3852.5	2323.6	789.2	584.7	550.4	505.1	483.1	502.3	513.3	520.2	524.3
70°	2348.3	1367.0	621.7	514.7	496.8	463.9	447.4	428.2	413.1	410.4	411.7
72.5°	1148.8	782.3	505.1	437.8	424.1	393.9	356.8	348.6	341.7	337.6	336.3
75°	632.7	544.9	417.2	363.7	339.0	301.9	293.7	280.0	277.2	271.7	273.1
77.5°	447.4	429.6	344.5	295.1	258.0	238.8	242.9	233.3	233.3	229.2	227.8
80°	336.3	337.6	264.9	215.5	190.8	183.9	188.0	188.0	185.3	183.9	182.5
82.5°	212.7	240.2	178.4	138.6	135.9	137.2	135.9	134.5	137.2	133.1	131.8
85°	146.9	172.9	108.4	82.3	82.3	81.0	83.7	82.3	85.1	81.0	81.0
87.5°	32.9	76.9	39.8	24.7	26.1	24.7	26.1	27.4	30.2	31.6	31.6
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)