

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: P642179

Luminaire Tested: GWS-SA6C-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6C-735-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22585.9 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

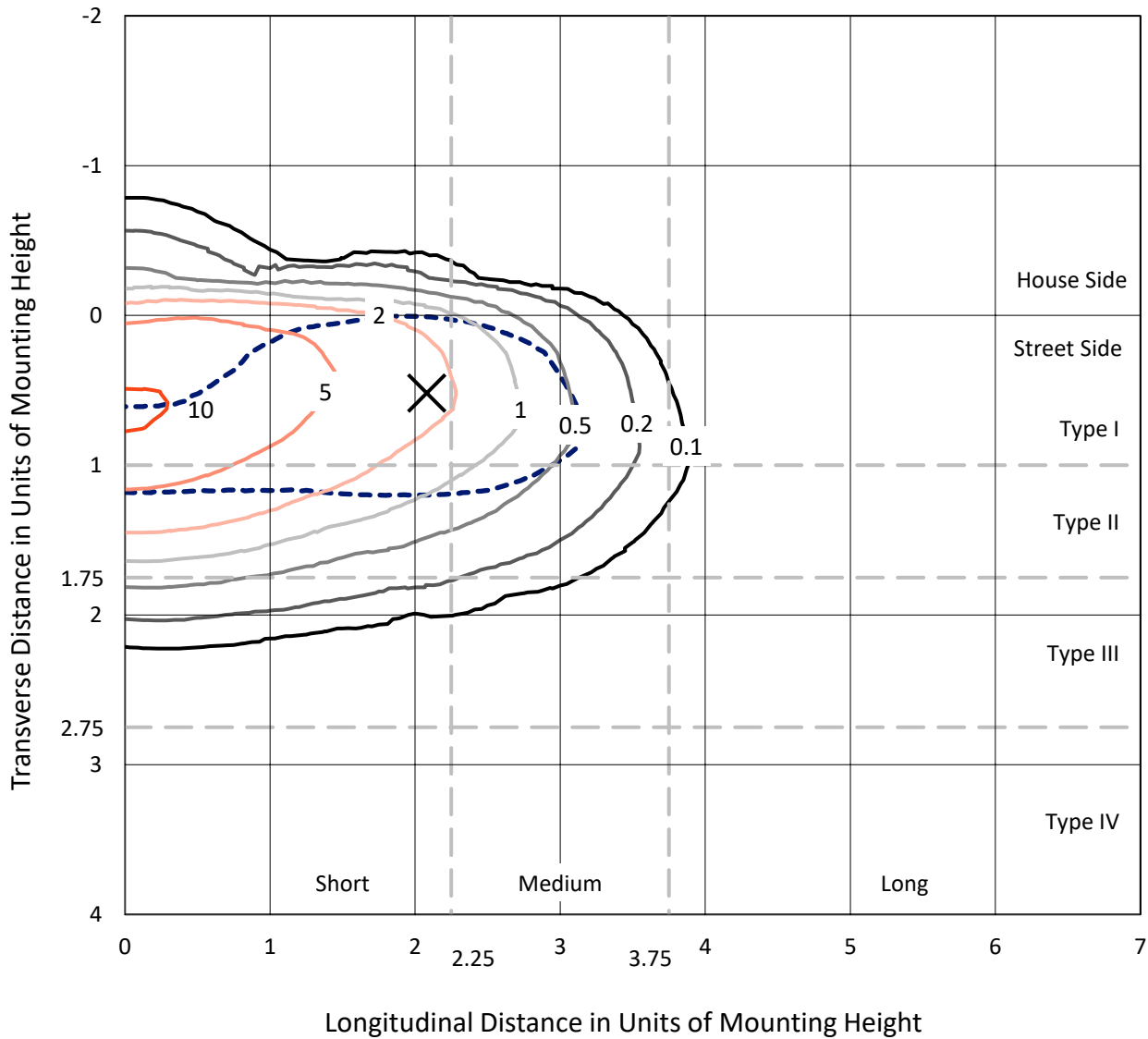
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

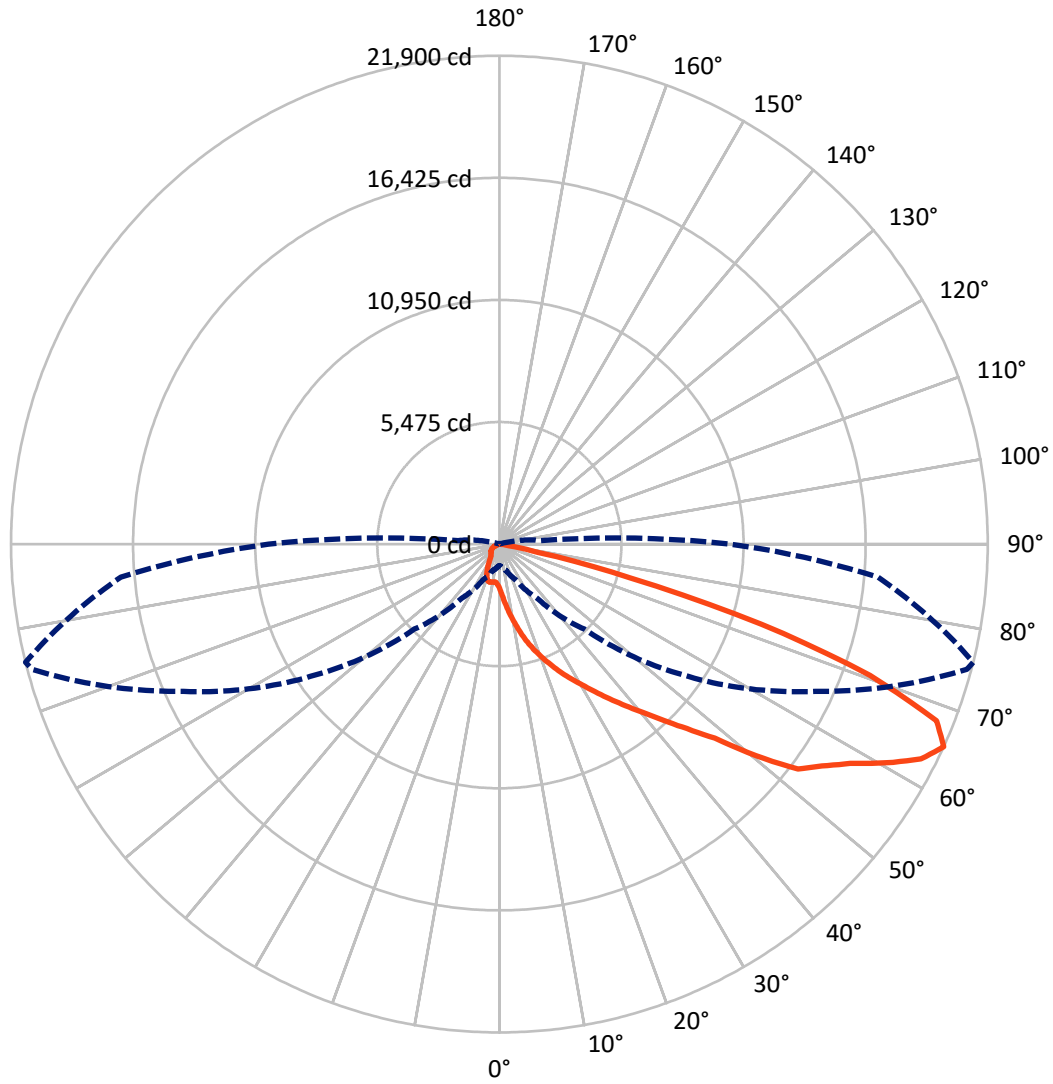
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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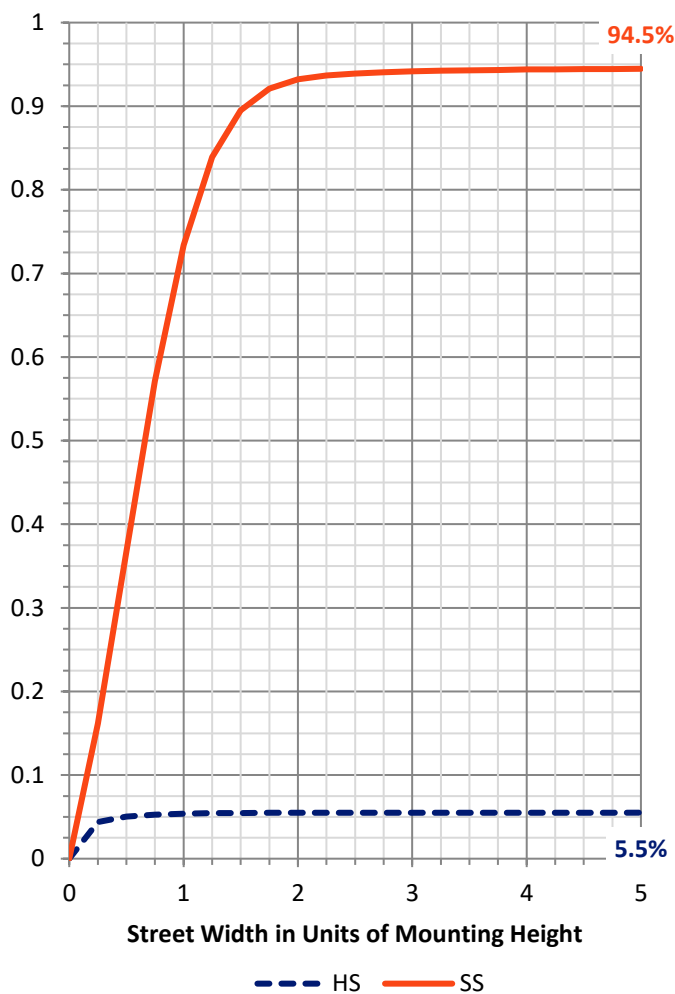
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1248.9	0.0	1248.9
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	21337.0	0.0	21337.0
	% Fixture	94.5	0.0	94.5
Total	Lumens	22585.9	0.0	22585.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.3	1.1
10°-20°	923.1	4.1
20°-30°	1883.2	8.3
30°-40°	3349.4	14.8
40°-50°	4951.2	21.9
50°-60°	5668.7	25.1
60°-70°	4325.0	19.1
70°-80°	1211.5	5.4
80°-90°	30.5	0.1
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°	22585.9	100.0
0°-180°	22585.9	100.0

Coefficient of Utilization



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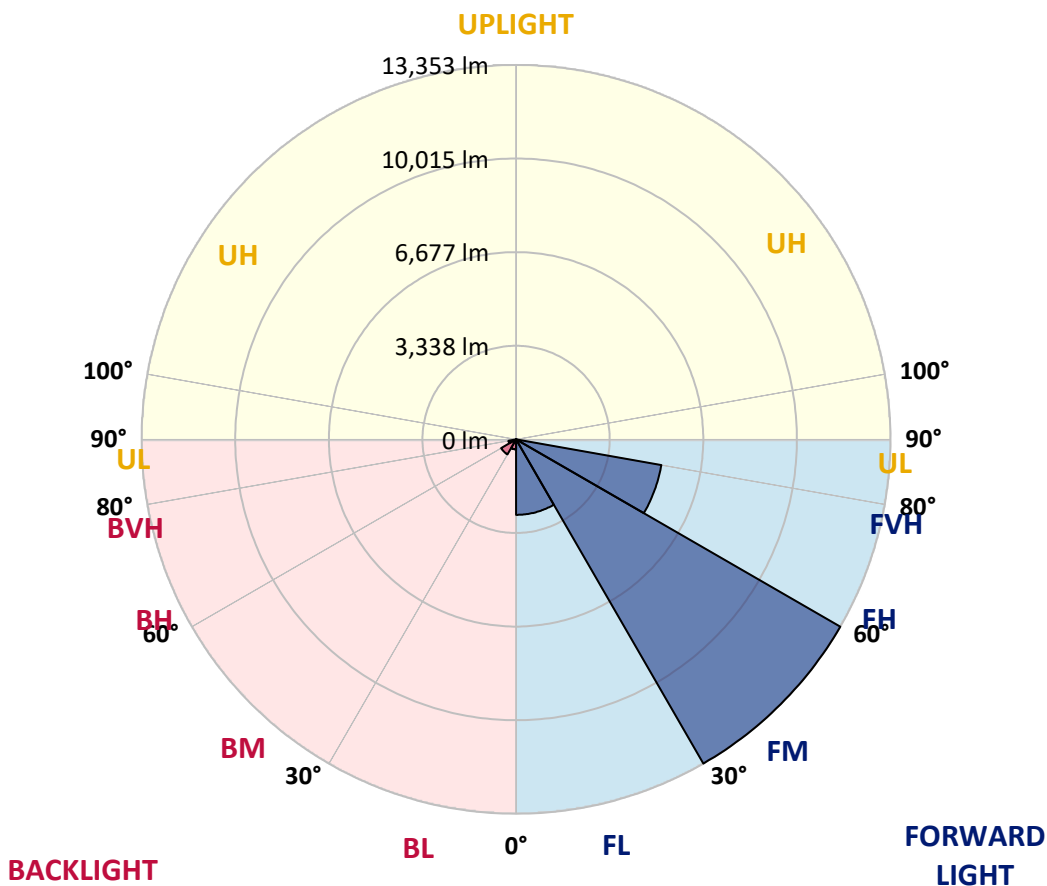
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2693.2	11.9			
FM (30°-60°)	13353.1	59.1			
FH (60°-80°)	5262.0	23.3			G3/7500
FVH (80°-90°)	28.7	0.1			G1/100
BL (0°-30°)	356.4	1.6	B1/500		
BM (30°-60°)	616.2	2.7	B1/1000		
BH (60°-80°)	274.5	1.2	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7
2.5°	3081.8	3128.0	3091.9	3031.6	2915.2	2802.8	2658.2	2459.4	2300.8	2280.8	2132.2
5°	4162.0	4158.0	4079.7	4001.4	3878.9	3686.1	3395.0	3025.6	2670.3	2640.1	2306.9
7.5°	4804.4	4810.5	4766.3	4706.1	4585.6	4386.8	4083.7	3638.0	3118.0	3057.7	2545.8
10°	5344.5	5342.5	5310.4	5282.3	5173.9	5041.4	4716.1	4226.2	3599.8	3505.5	2812.8
12.5°	5750.1	5764.1	5780.2	5808.3	5762.1	5631.6	5324.4	4790.4	4087.7	3983.3	3118.0
15°	6071.3	6075.3	6135.6	6244.0	6282.1	6213.9	5934.8	5336.5	4569.5	4479.2	3469.3
17.5°	6167.7	6175.7	6278.1	6476.9	6677.6	6715.8	6505.0	5886.6	5043.4	4947.0	3810.6
20°	6370.5	6388.5	6464.8	6639.5	6892.5	7097.2	7014.9	6442.7	5517.2	5390.7	4160.0
22.5°	7008.9	7018.9	6992.8	7014.9	7145.4	7382.3	7432.5	6980.8	6003.0	5868.5	4537.4
25°	8107.1	8111.1	7928.4	7755.8	7657.4	7701.6	7812.0	7476.7	6484.9	6352.4	4888.8
27.5°	9247.5	9261.6	9042.7	8749.6	8398.2	8197.5	8165.3	7930.4	6970.8	6824.2	5236.1
30°	10321.6	10321.6	10090.7	9733.4	9263.6	8872.1	8641.2	8388.2	7490.8	7330.1	5591.5
32.5°	11287.3	11279.3	10984.2	10596.7	10132.9	9703.2	9217.4	8866.0	8069.0	7890.3	6001.0
35°	12084.4	12064.3	11729.0	11357.6	10861.7	10542.5	10000.4	9380.0	8695.4	8516.7	6422.7
37.5°	12686.7	12664.6	12357.4	11963.9	11504.2	11297.4	10843.6	9996.4	9355.9	9193.3	6890.4
40°	13014.0	12969.8	12757.0	12463.8	12078.4	11897.7	11708.9	10761.3	10132.9	9930.1	7442.6
42.5°	13110.3	13058.1	12917.6	12781.1	12548.2	12405.6	12608.4	11624.6	10986.2	10811.5	8073.0
45°	12825.2	12795.1	12783.1	12881.4	12923.6	12963.8	13463.7	12580.3	11927.8	11795.3	8866.0
47.5°	12138.6	12130.6	12237.0	12646.5	13092.3	13515.9	14393.2	13758.8	13148.5	13005.9	9974.3
50°	10869.7	10952.0	11249.2	11967.9	12859.4	13829.1	15262.6	15393.1	15124.1	14915.3	11419.8
52.5°	8886.1	9044.7	9711.3	10803.5	12084.4	13740.7	15664.1	16702.1	16977.2	16760.3	12455.8
55°	6972.8	7121.3	7715.6	9100.9	10809.5	13068.2	15682.2	17153.8	17754.2	17553.4	13156.5
57.5°	5193.9	5330.5	5870.5	7195.6	9074.8	11745.1	15252.5	17404.8	18675.7	18547.2	14262.7
60°	3395.0	3529.5	4017.4	5175.9	7039.0	9817.7	14194.5	17352.6	19930.5	19918.5	15622.0
62.5°	1883.2	1989.6	2343.0	3246.5	4912.9	7603.2	12532.1	16828.6	21145.2	21221.5	16742.3
65°	963.7	1032.0	1246.8	1784.9	2973.4	5390.7	10345.7	15628.0	21707.3	21900.1	17037.4
67.5°	630.4	652.5	704.7	927.6	1592.1	3391.0	7785.9	13702.6	20916.3	21141.2	16047.6
70°	512.0	530.0	560.2	618.4	821.2	1800.9	5113.6	10944.0	17477.1	17629.7	12779.1
72.5°	375.4	399.5	457.8	495.9	592.3	987.8	2660.2	7183.6	12002.1	12271.1	8030.8
75°	277.1	291.1	339.3	391.5	483.9	624.4	1017.9	3776.5	6197.8	6041.2	3372.9
77.5°	166.6	176.7	216.8	251.0	345.3	389.5	355.4	1395.4	1885.2	1772.8	815.1
80°	82.3	92.4	142.5	188.7	220.8	156.6	148.6	389.5	419.6	419.6	204.8
82.5°	28.1	36.1	76.3	124.5	108.4	60.2	70.3	100.4	112.4	118.5	60.2
85°	0.0	0.0	18.1	36.1	16.1	8.0	18.1	22.1	28.1	30.1	20.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	6.0	8.0	8.0
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°	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7	1999.7
2.5°	2051.9	1957.5	1815.0	1686.5	1588.1	1495.7	1425.5	1369.3	1359.2	1327.1	1331.1
5°	2144.2	1973.6	1710.6	1507.8	1365.2	1268.9	1188.6	1128.3	1102.2	1076.1	1056.1
7.5°	2286.8	2039.8	1670.4	1423.5	1256.8	1108.3	983.8	883.4	835.2	805.1	785.0
10°	2461.4	2132.2	1672.4	1373.3	1126.3	899.5	728.8	618.4	566.2	550.1	548.1
12.5°	2670.3	2248.6	1688.5	1291.0	937.6	668.6	540.1	489.9	473.8	459.8	459.8
15°	2891.1	2379.1	1688.5	1140.4	714.7	522.0	467.8	435.7	415.6	407.6	403.5
17.5°	3124.0	2501.6	1648.3	933.6	548.1	459.8	415.6	385.5	369.4	357.4	353.4
20°	3372.9	2618.0	1547.9	714.7	469.8	411.6	369.4	339.3	323.2	311.2	311.2
22.5°	3625.9	2726.5	1385.3	550.1	415.6	365.4	325.2	297.1	281.1	269.0	269.0
25°	3860.8	2798.7	1176.5	453.7	375.4	325.2	289.1	261.0	242.9	234.9	230.9
27.5°	4079.7	2844.9	945.6	399.5	337.3	291.1	253.0	226.9	212.8	206.8	202.8
30°	4306.5	2857.0	722.8	363.4	305.2	257.0	220.8	200.8	188.7	180.7	180.7
32.5°	4527.4	2842.9	552.1	333.3	277.1	226.9	196.8	178.7	168.6	162.6	160.6
35°	4752.2	2778.7	447.7	307.2	249.0	198.8	174.7	160.6	154.6	146.6	146.6
37.5°	4997.2	2692.3	389.5	281.1	220.8	178.7	156.6	146.6	138.5	132.5	130.5
40°	5302.4	2591.9	357.4	259.0	194.7	160.6	140.5	130.5	124.5	118.5	116.4
42.5°	5663.7	2493.6	341.3	234.9	174.7	142.5	126.5	114.4	108.4	100.4	98.4
45°	6175.7	2471.5	323.2	208.8	156.6	128.5	110.4	98.4	90.3	84.3	82.3
47.5°	6998.9	2533.7	293.1	180.7	138.5	112.4	94.4	84.3	74.3	68.3	64.2
50°	7816.0	2517.7	263.0	156.6	122.5	96.4	80.3	70.3	60.2	54.2	52.2
52.5°	8261.7	2441.4	234.9	138.5	106.4	82.3	68.3	56.2	50.2	44.2	42.2
55°	8665.3	2411.3	206.8	120.5	90.3	72.3	56.2	46.2	42.2	36.1	34.1
57.5°	9456.3	2481.5	182.7	104.4	78.3	62.2	48.2	38.1	34.1	28.1	26.1
60°	10283.5	2489.6	156.6	90.3	68.3	52.2	38.1	30.1	26.1	20.1	18.1
62.5°	10715.1	2286.8	128.5	76.3	56.2	44.2	32.1	24.1	20.1	12.0	12.0
65°	10353.7	1849.1	108.4	62.2	44.2	34.1	24.1	18.1	12.0	6.0	2.0
67.5°	9163.2	1315.0	90.3	50.2	32.1	24.1	18.1	12.0	2.0	0.0	0.0
70°	6709.8	750.9	70.3	36.1	24.1	16.1	12.0	6.0	0.0	0.0	0.0
72.5°	4123.8	401.5	52.2	24.1	18.1	12.0	10.0	4.0	0.0	0.0	0.0
75°	1564.0	192.7	32.1	16.1	14.1	10.0	6.0	2.0	0.0	0.0	0.0
77.5°	423.6	94.4	18.1	12.0	10.0	6.0	4.0	0.0	0.0	0.0	0.0
80°	110.4	44.2	12.0	8.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.1	20.1	6.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
85°	16.1	8.0	4.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	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)