

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: P640042

Luminaire Tested: GWS-SA5D-722-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-722-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17322.3 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

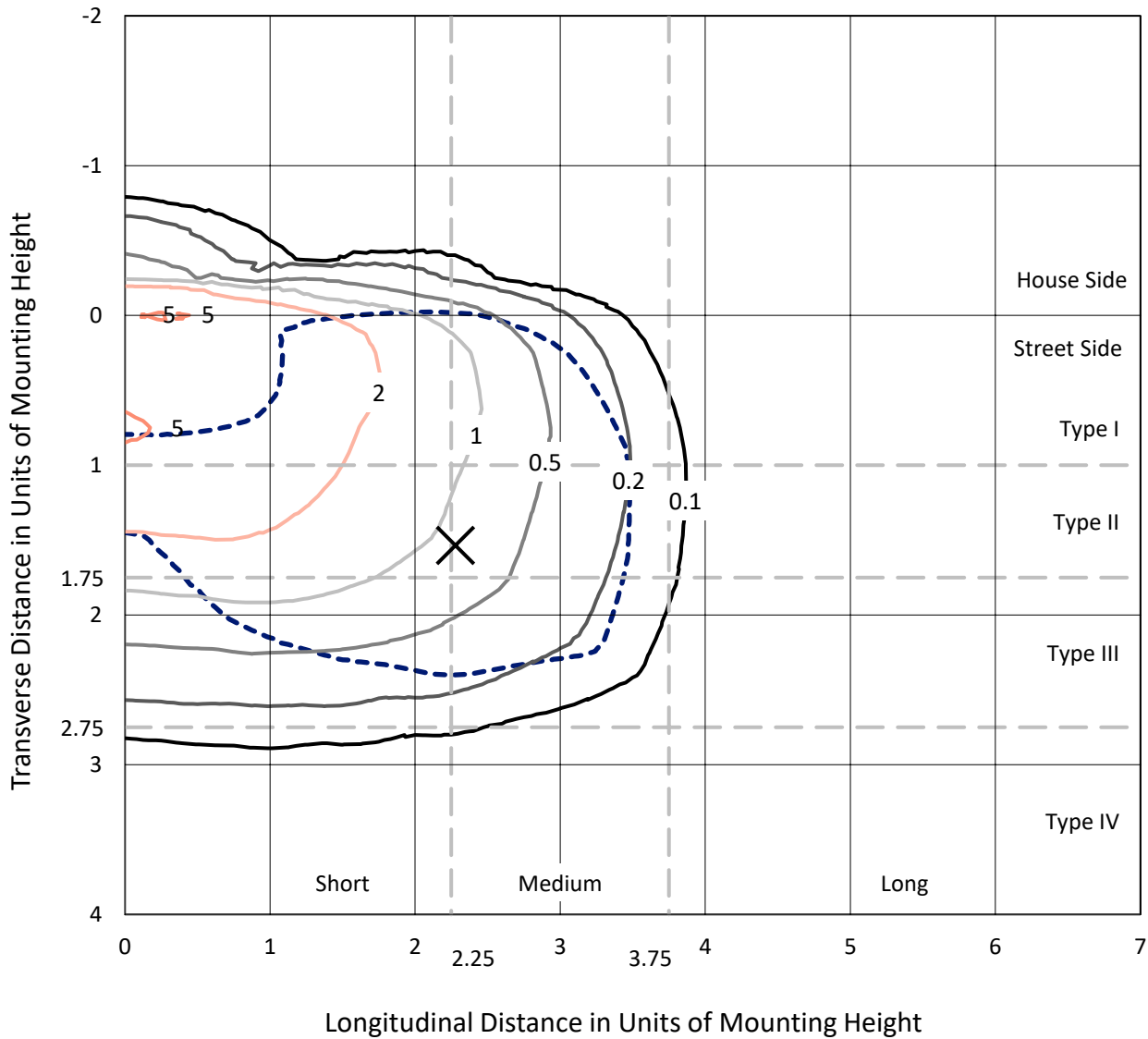
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

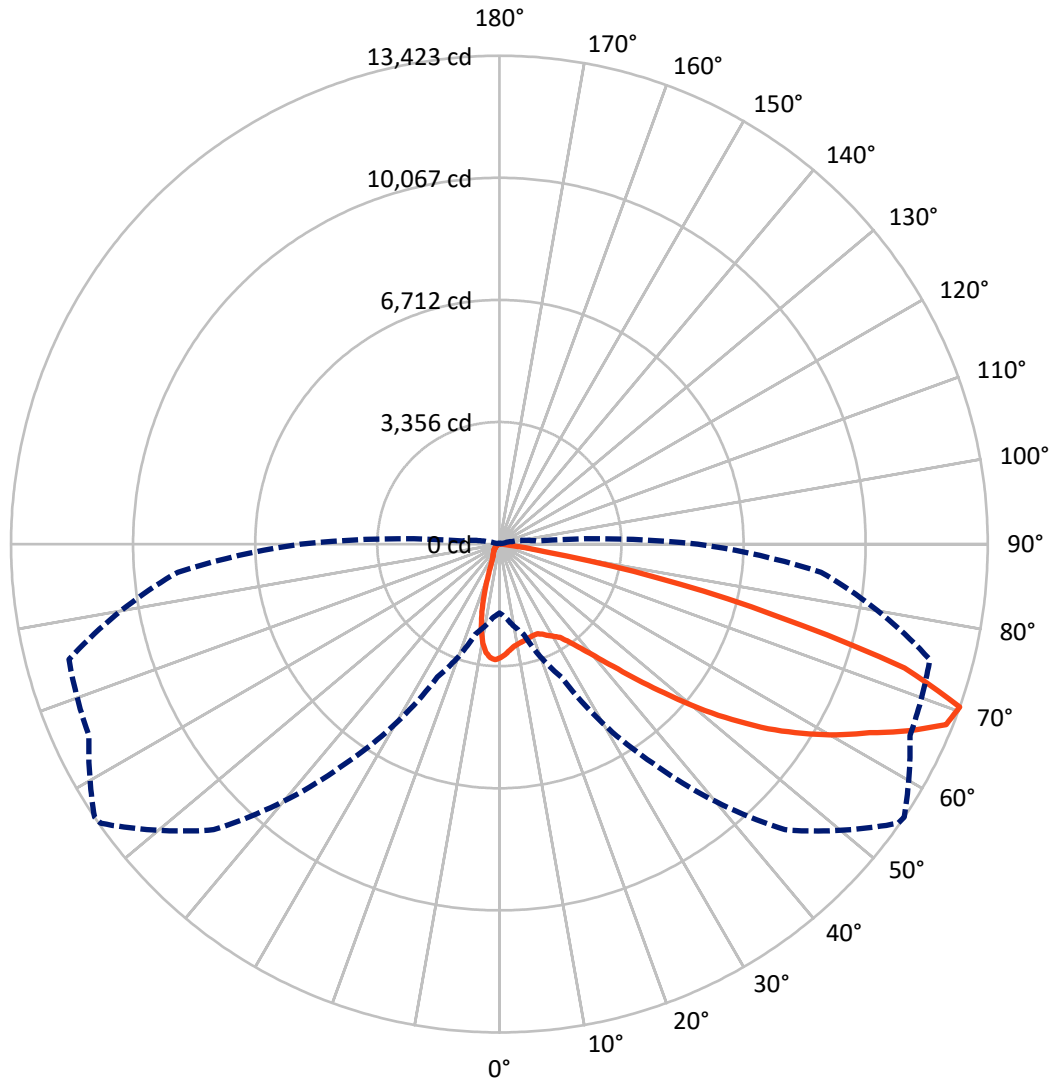
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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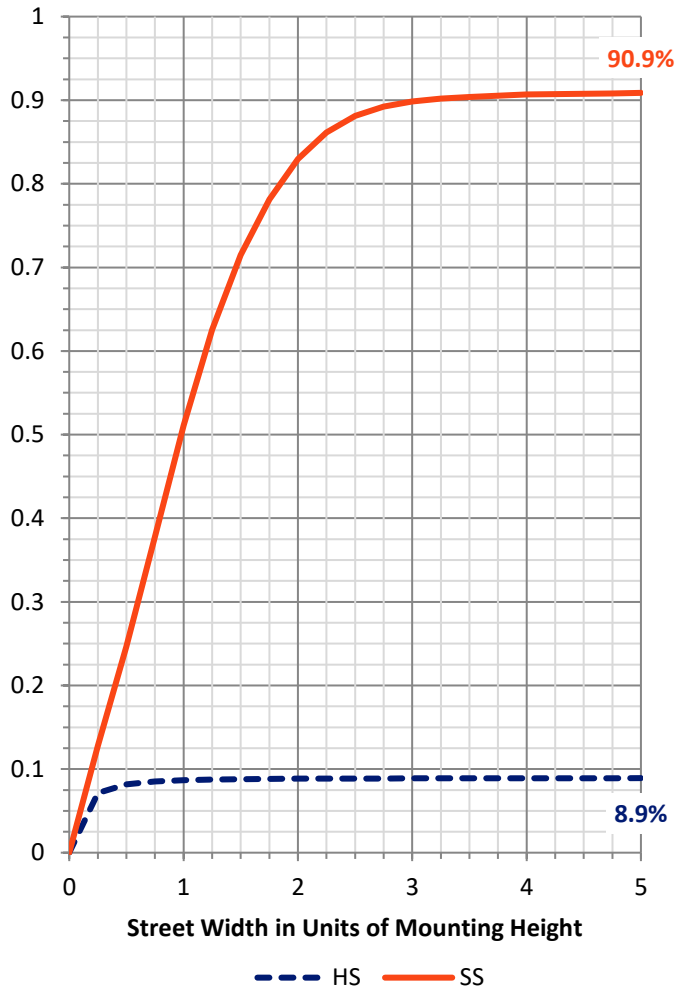
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1555.9	0.0	1555.9
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	15766.4	0.0	15766.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	17322.3	0.0	17322.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.2	1.5
10°-20°	603.1	3.5
20°-30°	955.4	5.5
30°-40°	1647.5	9.5
40°-50°	2782.2	16.1
50°-60°	4087.9	23.6
60°-70°	4846.4	28.0
70°-80°	2066.7	11.9
80°-90°	64.9	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°	17322.3	100.0
0°-180°	17322.3	100.0

Coefficient of Utilization



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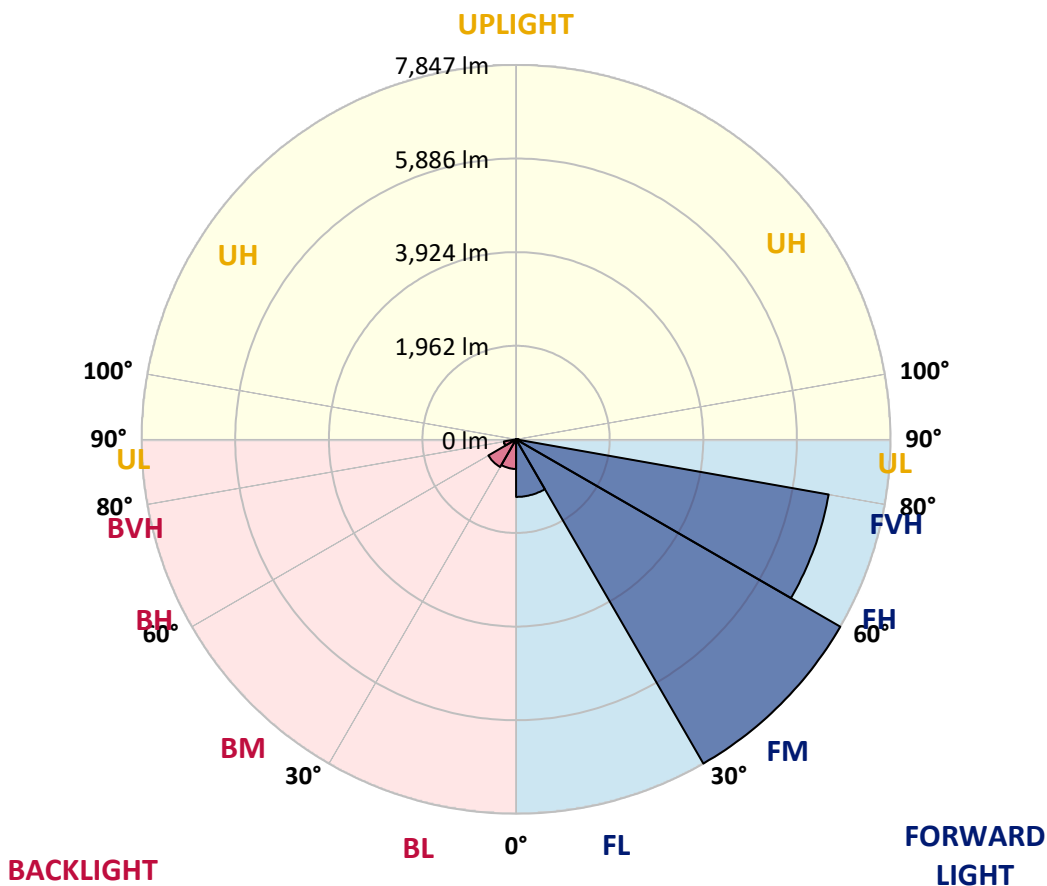
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.0	7.0			
FM (30°-60°)	7847.5	45.3			
FH (60°-80°)	6653.6	38.4			G3/7500
FVH (80°-90°)	58.3	0.3			G1/100
BL (0°-30°)	619.6	3.6	B2/1000		
BM (30°-60°)	670.1	3.9	B1/1000		
BH (60°-80°)	259.5	1.5	B1/500		G1/500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4
2.5°	2907.7	2902.9	2906.1	2929.9	2974.3	2994.9	3029.8	3036.1	3064.7	3101.2	3115.5
5°	2718.9	2703.0	2711.0	2744.3	2795.0	2852.1	2917.2	2934.6	3006.0	3086.9	3147.2
7.5°	2546.0	2528.5	2547.6	2599.9	2671.3	2733.2	2829.9	2841.0	2955.2	3098.0	3207.5
10°	2274.7	2279.5	2317.6	2409.6	2519.0	2647.5	2777.6	2793.4	2934.6	3134.5	3304.2
12.5°	2066.9	2055.8	2097.1	2201.8	2355.6	2542.8	2737.9	2758.5	2936.2	3190.0	3428.0
15°	1970.2	1967.0	1984.4	2060.6	2209.7	2430.2	2701.4	2728.4	2956.8	3240.8	3545.3
17.5°	1973.3	1968.6	1967.0	2011.4	2122.4	2346.1	2661.8	2696.7	2974.3	3296.3	3669.1
20°	2111.3	2089.1	2049.5	2028.9	2095.5	2292.2	2634.8	2674.5	2999.7	3355.0	3800.7
22.5°	2400.0	2408.0	2301.7	2190.7	2158.9	2298.5	2631.6	2677.6	3055.2	3447.0	3962.5
25°	2977.4	2964.8	2768.1	2519.0	2346.1	2371.5	2687.2	2742.7	3164.6	3578.6	4114.8
27.5°	3700.8	3711.9	3442.2	3045.7	2684.0	2522.2	2788.7	2844.2	3291.5	3661.1	4216.3
30°	4489.2	4478.1	4189.4	3750.0	3163.0	2772.8	2890.2	2939.4	3355.0	3705.5	4321.0
32.5°	5234.7	5209.3	4923.8	4463.8	3773.8	3167.8	3029.8	3058.3	3439.1	3802.3	4462.2
35°	5870.8	5869.2	5620.2	5130.0	4401.9	3662.7	3269.3	3293.1	3596.1	3956.2	4670.0
37.5°	6527.5	6505.3	6226.1	5778.8	5047.5	4205.2	3635.8	3626.2	3843.6	4183.0	4925.4
40°	7066.9	7052.6	6838.5	6408.6	5718.5	4804.8	4079.9	4051.4	4137.0	4497.1	5280.7
42.5°	7466.6	7468.2	7401.6	7139.8	6429.2	5498.0	4638.3	4593.9	4592.3	4971.4	5750.3
45°	7769.6	7790.2	7890.2	7850.5	7268.3	6305.5	5353.7	5307.7	5230.0	5586.9	6288.0
47.5°	7910.8	7937.7	8239.1	8397.8	8002.8	7106.5	6205.5	6108.8	5956.5	6405.4	6889.2
50°	7896.5	7944.1	8364.5	8846.7	8669.0	7918.7	7133.5	7087.5	6838.5	7271.5	7484.1
52.5°	7572.9	7674.4	8372.4	9119.5	9181.4	8667.4	8093.2	8007.5	7887.0	8175.7	8042.4
55°	6694.1	6817.8	8037.7	9206.8	9581.1	9321.0	9032.3	8962.5	8762.6	9029.1	8529.4
57.5°	6216.6	6322.9	7333.4	9163.9	9920.6	9925.4	9868.2	9811.1	9646.2	9873.0	9100.5
60°	5929.5	6035.8	6957.4	9006.9	10228.3	10563.0	10653.5	10647.1	10409.2	10832.7	9769.9
62.5°	5509.1	5655.1	6565.6	8599.2	10447.2	11191.2	11464.0	11421.2	11156.3	11832.1	10433.0
65°	4660.5	4787.4	5763.0	7926.6	10318.8	11711.5	12342.8	12365.1	12058.9	12772.7	10956.4
67.5°	3267.7	3361.3	4330.5	6514.9	9446.3	11882.8	13242.3	13240.7	12718.8	13255.0	10724.8
70°	1894.0	2022.5	2558.7	4027.6	7349.2	11104.0	13377.1	13423.1	12450.7	12247.7	8875.2
72.5°	732.9	839.1	1449.9	2139.9	3832.5	8505.6	11506.9	11641.7	10420.3	9447.9	6177.0
75°	218.9	244.3	682.1	1138.9	1538.7	4108.5	7790.2	7828.3	7147.8	5893.0	3166.2
77.5°	163.4	180.8	298.2	575.8	539.3	1245.2	4030.7	4401.9	3794.4	2105.0	872.5
80°	111.0	131.7	212.6	280.8	199.9	331.5	1132.6	1243.6	1158.0	472.7	218.9
82.5°	49.2	63.5	150.7	141.2	73.0	95.2	349.0	371.2	239.5	142.8	76.1
85°	4.8	6.3	57.1	61.9	27.0	22.2	73.0	73.0	52.3	49.2	31.7
87.5°	0.0	0.0	1.6	3.2	3.2	4.8	6.3	7.9	9.5	12.7	15.9
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°	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4	3123.4
2.5°	3151.9	3132.9	3156.7	3175.7	3180.5	3145.6	3125.0	3094.8	3088.5	3090.1	3082.1
5°	3194.8	3185.2	3202.7	3182.1	3128.1	3026.6	2939.4	2842.6	2790.3	2760.1	2757.0
7.5°	3274.1	3269.3	3250.3	3156.7	2988.6	2763.3	2546.0	2333.4	2201.8	2154.2	2146.2
10°	3391.5	3381.9	3304.2	3082.1	2723.6	2290.6	1925.7	1621.2	1435.6	1381.6	1315.0
12.5°	3526.3	3507.3	3337.5	2921.9	2323.9	1724.3	1269.0	928.0	767.8	720.2	720.2
15°	3656.4	3615.1	3318.5	2657.0	1832.2	1121.5	709.1	536.2	487.0	474.3	474.3
17.5°	3789.6	3710.3	3243.9	2295.3	1265.9	663.1	472.7	439.4	433.1	434.6	436.2
20°	3914.9	3791.2	3112.3	1860.7	807.4	463.2	423.5	415.6	412.4	415.6	414.0
22.5°	4051.4	3865.8	2912.4	1386.4	525.1	417.2	402.9	396.6	393.4	398.2	398.2
25°	4186.2	3919.7	2647.5	932.7	417.2	388.6	380.7	374.4	371.2	372.8	372.8
27.5°	4256.0	3899.1	2300.1	594.9	374.4	360.1	352.2	344.2	339.5	337.9	339.5
30°	4303.6	3835.6	1875.0	423.5	339.5	322.0	314.1	307.7	295.0	287.1	290.3
32.5°	4378.1	3772.2	1413.4	355.3	310.9	283.9	271.3	255.4	237.9	230.0	230.0
35°	4467.0	3684.9	991.4	320.4	280.8	252.2	228.4	201.5	180.8	174.5	174.5
37.5°	4584.3	3602.4	659.9	296.6	255.4	225.3	191.9	160.2	138.0	134.8	133.2
40°	4760.4	3532.6	464.8	279.2	233.2	196.7	157.0	123.7	107.9	103.1	103.1
42.5°	4988.9	3461.3	368.0	261.7	214.1	169.7	125.3	98.3	85.7	82.5	80.9
45°	5271.2	3377.2	320.4	245.9	195.1	141.2	99.9	82.5	73.0	69.8	69.8
47.5°	5577.4	3263.0	298.2	225.3	172.9	114.2	84.1	71.4	66.6	65.0	63.5
50°	5878.8	3109.1	279.2	206.2	147.5	93.6	73.0	65.0	61.9	60.3	60.3
52.5°	6142.1	2929.9	255.4	184.0	120.6	80.9	65.0	60.3	57.1	53.9	52.3
55°	6367.3	2734.7	225.3	158.6	98.3	71.4	60.3	55.5	52.3	49.2	47.6
57.5°	6657.6	2623.7	180.8	128.5	80.9	63.5	55.5	50.8	47.6	42.8	42.8
60°	6979.6	2542.8	134.8	101.5	69.8	58.7	50.8	46.0	42.8	38.1	38.1
62.5°	7238.2	2422.2	106.3	82.5	60.3	52.3	46.0	41.2	38.1	33.3	33.3
65°	7336.5	2173.2	87.2	65.0	49.2	46.0	41.2	38.1	33.3	28.6	28.6
67.5°	6892.4	1675.1	73.0	52.3	41.2	39.7	36.5	34.9	28.6	25.4	23.8
70°	5458.4	1021.6	60.3	42.8	34.9	33.3	33.3	30.1	25.4	23.8	22.2
72.5°	3740.4	526.6	49.2	34.9	30.1	30.1	28.6	27.0	23.8	22.2	22.2
75°	1943.2	176.1	38.1	27.0	23.8	25.4	25.4	23.8	22.2	22.2	20.6
77.5°	556.8	79.3	28.6	20.6	19.0	19.0	20.6	20.6	20.6	19.0	19.0
80°	144.4	46.0	20.6	15.9	15.9	15.9	15.9	17.4	19.0	17.4	17.4
82.5°	58.7	25.4	14.3	12.7	12.7	12.7	12.7	14.3	15.9	15.9	15.9
85°	36.5	12.7	11.1	11.1	11.1	9.5	9.5	11.1	11.1	12.7	12.7
87.5°	22.2	9.5	9.5	9.5	9.5	7.9	7.9	7.9	7.9	7.9	7.9
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)