

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: P637677

Luminaire Tested: GWS-SA4D-730-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637677
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-SA4D-730-U-T3R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17457 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

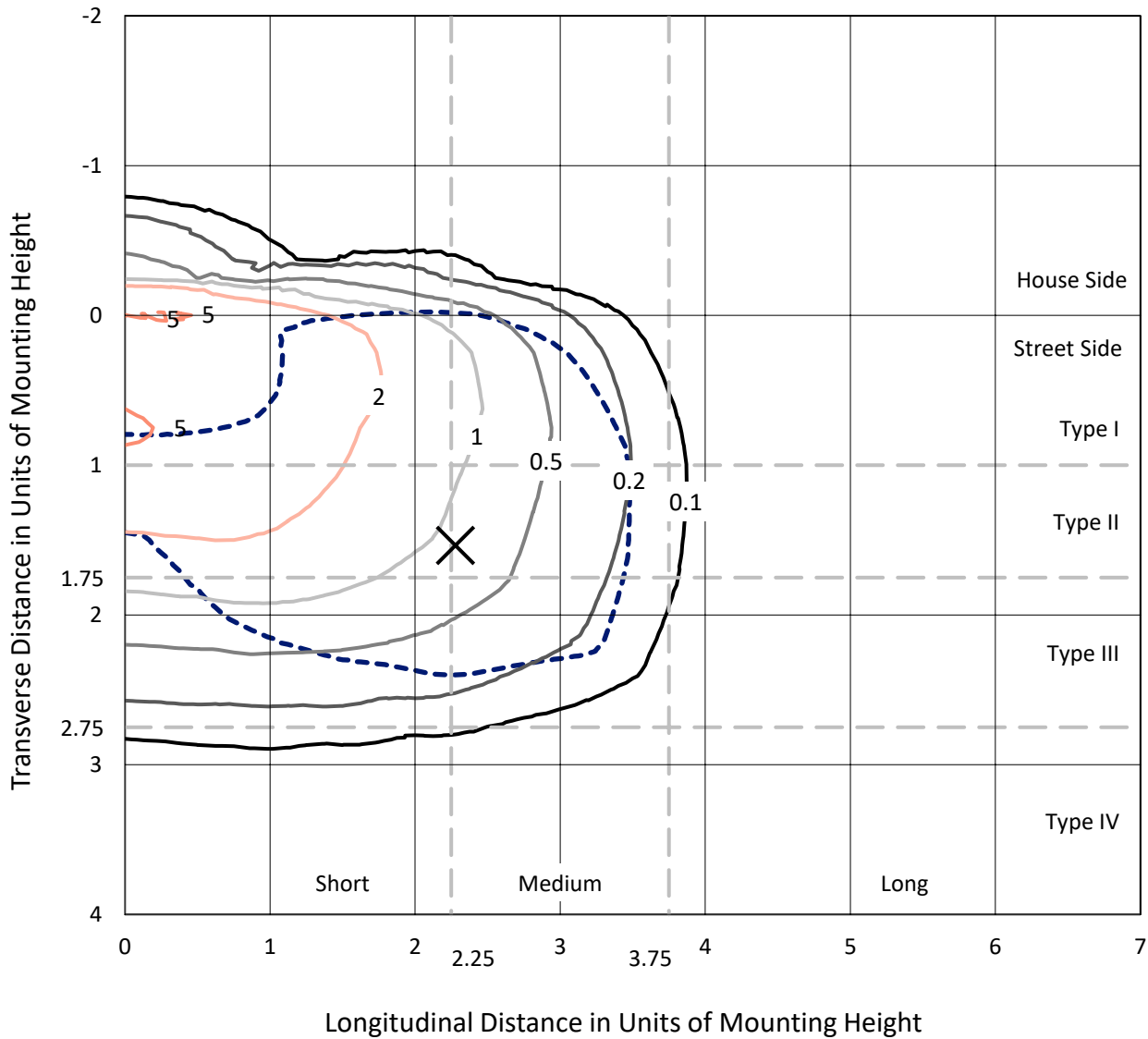
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

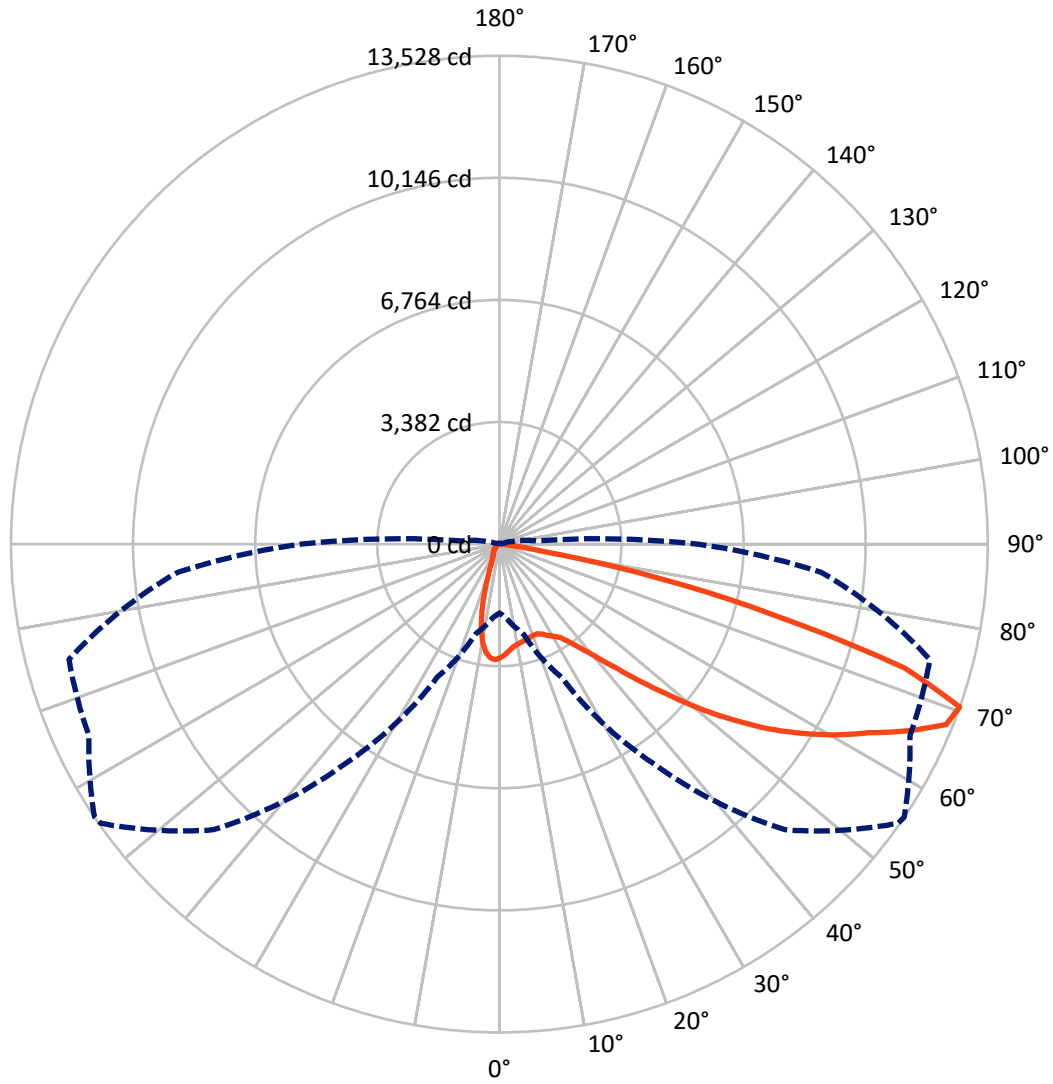
✕ Max cd
 - - - 1/2 Max cd



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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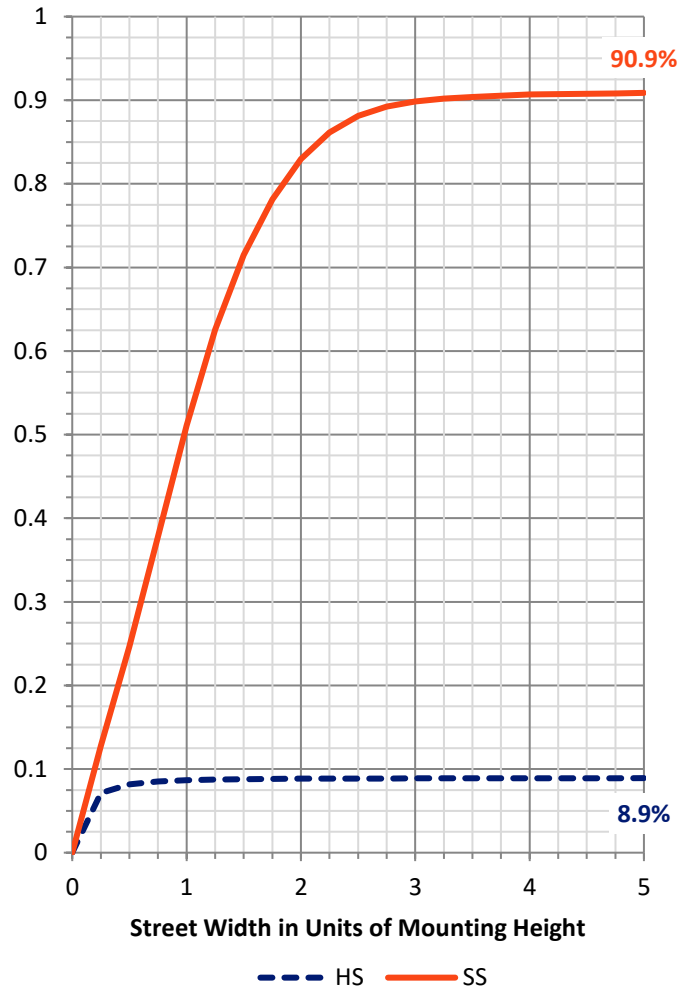
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1568.0	0.0	1568.0
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	15889.0	0.0	15889.0
	% Fixture	91.0	0.0	91.0
Total	Lumens	17457.0	0.0	17457.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	1.5
10°-20°	607.8	3.5
20°-30°	962.8	5.5
30°-40°	1660.4	9.5
40°-50°	2803.8	16.1
50°-60°	4119.7	23.6
60°-70°	4884.1	28.0
70°-80°	2082.8	11.9
80°-90°	65.4	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°	17457.0	100.0
0°-180°	17457.0	100.0

Coefficient of Utilization



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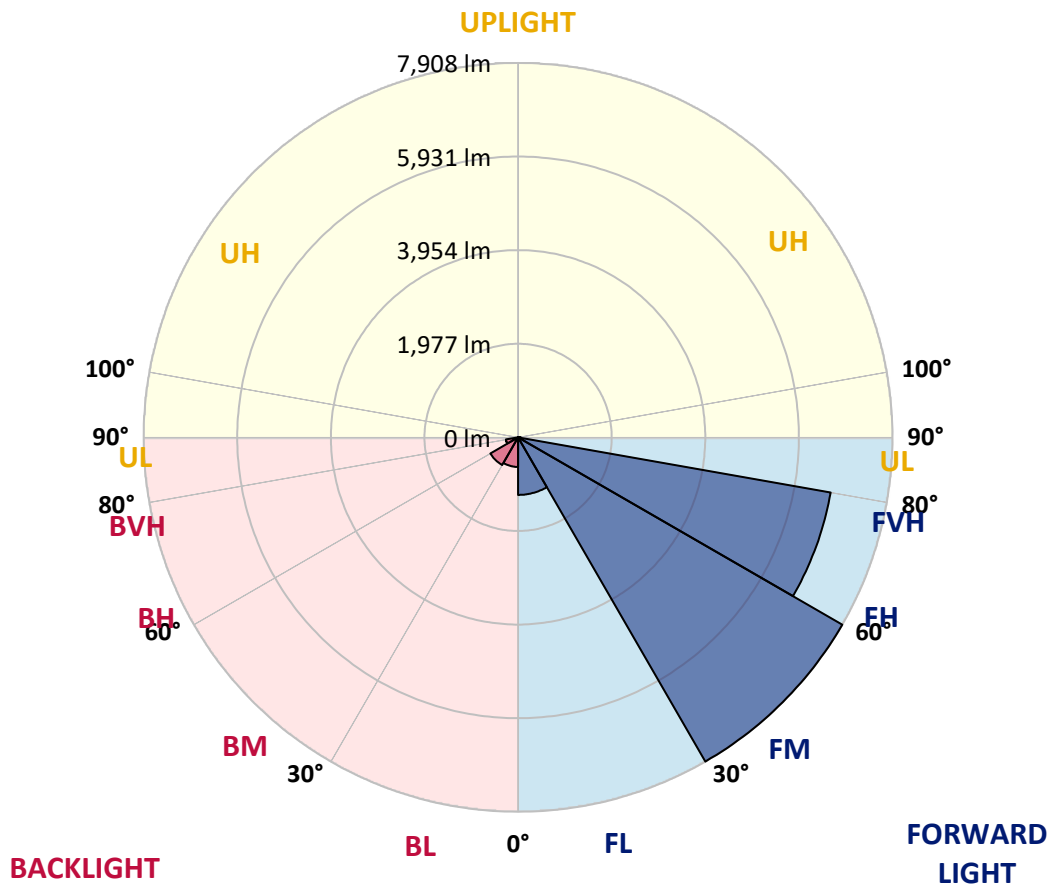
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.4	7.0			
FM (30°-60°)	7908.5	45.3			
FH (60°-80°)	6705.4	38.4			G3/7500
FVH (80°-90°)	58.8	0.3			G1/100
BL (0°-30°)	624.5	3.6	B2/1000		
BM (30°-60°)	675.3	3.9	B1/1000		
BH (60°-80°)	261.5	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°	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7
2.5°	2930.3	2925.5	2928.7	2952.6	2997.4	3018.2	3053.4	3059.7	3088.5	3125.3	3139.7
5°	2740.0	2724.0	2732.0	2765.6	2816.8	2874.3	2939.9	2957.4	3029.4	3110.9	3171.7
7.5°	2565.8	2548.2	2567.4	2620.1	2692.1	2754.4	2851.9	2863.1	2978.2	3122.1	3232.4
10°	2292.4	2297.2	2335.6	2428.3	2538.6	2668.1	2799.2	2815.2	2957.4	3158.9	3329.9
12.5°	2083.0	2071.8	2113.4	2218.9	2373.9	2562.6	2759.2	2780.0	2959.0	3214.8	3454.6
15°	1985.5	1982.3	1999.9	2076.6	2226.9	2449.1	2722.4	2749.6	2979.8	3266.0	3572.9
17.5°	1988.7	1983.9	1982.3	2027.0	2138.9	2364.4	2682.5	2717.6	2997.4	3321.9	3697.6
20°	2127.8	2105.4	2065.4	2044.6	2111.8	2310.0	2655.3	2695.3	3023.0	3381.1	3830.3
22.5°	2418.7	2426.7	2319.6	2207.7	2175.7	2316.4	2652.1	2698.5	3078.9	3473.8	3993.3
25°	3000.6	2987.8	2789.6	2538.6	2364.4	2389.9	2708.1	2764.0	3189.2	3606.5	4146.8
27.5°	3729.6	3740.8	3469.0	3069.3	2704.9	2541.8	2810.4	2866.3	3317.1	3689.6	4249.1
30°	4524.1	4512.9	4221.9	3779.1	3187.6	2794.4	2912.7	2962.2	3381.1	3734.4	4354.6
32.5°	5275.4	5249.9	4962.1	4498.5	3803.1	3192.4	3053.4	3082.1	3465.8	3831.9	4496.9
35°	5916.5	5914.9	5663.9	5169.9	4436.2	3691.2	3294.7	3318.7	3624.1	3986.9	4706.3
37.5°	6578.3	6555.9	6274.6	5823.8	5086.8	4237.9	3664.0	3654.4	3873.4	4215.5	4963.7
40°	7121.8	7107.4	6891.6	6458.4	5763.0	4842.2	4111.6	4082.9	4169.2	4532.1	5321.8
42.5°	7524.7	7526.3	7459.1	7195.4	6479.2	5540.8	4674.3	4629.6	4628.0	5010.1	5795.0
45°	7830.0	7850.8	7951.5	7911.5	7324.9	6354.5	5395.3	5349.0	5270.6	5630.3	6336.9
47.5°	7972.3	7999.5	8303.2	8463.1	8065.0	7161.8	6253.8	6156.3	6002.8	6455.2	6942.8
50°	7957.9	8005.9	8429.5	8915.5	8736.4	7980.3	7189.0	7142.6	6891.6	7328.1	7542.3
52.5°	7631.8	7734.1	8437.5	9190.4	9252.8	8734.8	8156.1	8069.8	7948.3	8239.3	8105.0
55°	6746.2	6870.8	8100.2	9278.4	9655.6	9393.5	9102.5	9032.2	8830.7	9099.3	8595.8
57.5°	6265.0	6372.1	7390.4	9235.2	9997.7	10002.5	9945.0	9887.4	9721.2	9949.8	9171.3
60°	5975.6	6082.7	7011.5	9076.9	10307.9	10645.2	10736.3	10729.9	10490.1	10916.9	9845.9
62.5°	5552.0	5699.1	6616.7	8666.1	10528.5	11278.2	11553.2	11510.0	11243.1	11924.1	10514.1
65°	4696.7	4824.6	5807.8	7988.3	10399.0	11802.6	12438.8	12461.2	12152.7	12872.0	11041.6
67.5°	3293.1	3387.5	4364.2	6565.5	9519.8	11975.2	13345.2	13343.6	12817.7	13358.0	10808.2
70°	1908.7	2038.2	2578.6	4058.9	7406.4	11190.3	13481.1	13527.5	12547.5	12342.9	8944.3
72.5°	738.6	845.7	1461.1	2156.5	3862.3	8571.8	11596.4	11732.2	10501.3	9521.4	6225.0
75°	220.6	246.2	687.4	1147.8	1550.7	4140.4	7850.8	7889.2	7203.4	5938.9	3190.8
77.5°	164.7	182.2	300.5	580.3	543.5	1254.9	4062.1	4436.2	3823.9	2121.4	879.2
80°	111.9	132.7	214.2	283.0	201.4	334.1	1141.4	1253.3	1167.0	476.4	220.6
82.5°	49.6	63.9	151.9	142.3	73.5	95.9	351.7	374.1	241.4	143.9	76.7
85°	4.8	6.4	57.6	62.3	27.2	22.4	73.5	73.5	52.8	49.6	32.0
87.5°	0.0	0.0	1.6	3.2	3.2	4.8	6.4	8.0	9.6	12.8	16.0
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°	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7	3147.7
2.5°	3176.4	3157.3	3181.2	3200.4	3205.2	3170.1	3149.3	3118.9	3112.5	3114.1	3106.1
5°	3219.6	3210.0	3227.6	3206.8	3152.5	3050.2	2962.2	2864.7	2812.0	2781.6	2778.4
7.5°	3299.5	3294.7	3275.6	3181.2	3011.8	2784.8	2565.8	2351.6	2218.9	2170.9	2162.9
10°	3417.8	3408.2	3329.9	3106.1	2744.8	2308.4	1940.7	1633.8	1446.7	1392.4	1325.3
12.5°	3553.7	3534.5	3363.5	2944.6	2342.0	1737.7	1278.9	935.2	773.7	725.8	725.8
15°	3684.8	3643.2	3344.3	2677.7	1846.4	1130.2	714.6	540.3	490.8	478.0	478.0
17.5°	3819.1	3739.2	3269.2	2313.2	1275.7	668.2	476.4	442.8	436.4	438.0	439.6
20°	3945.4	3820.7	3136.5	1875.2	813.7	466.8	426.8	418.8	415.6	418.8	417.2
22.5°	4082.9	3895.8	2935.1	1397.2	529.1	420.4	406.0	399.7	396.5	401.3	401.3
25°	4218.7	3950.2	2668.1	940.0	420.4	391.7	383.7	377.3	374.1	375.7	375.7
27.5°	4289.1	3929.4	2318.0	599.5	377.3	362.9	354.9	346.9	342.1	340.5	342.1
30°	4337.0	3865.5	1889.6	426.8	342.1	324.5	316.5	310.1	297.3	289.3	292.5
32.5°	4412.2	3801.5	1424.4	358.1	313.3	286.2	273.4	257.4	239.8	231.8	231.8
35°	4501.7	3713.6	999.1	322.9	283.0	254.2	230.2	203.0	182.2	175.8	175.8
37.5°	4620.0	3630.5	665.0	298.9	257.4	227.0	193.4	161.5	139.1	135.9	134.3
40°	4797.4	3560.1	468.4	281.4	235.0	198.2	158.3	124.7	108.7	103.9	103.9
42.5°	5027.6	3488.2	370.9	263.8	215.8	171.1	126.3	99.1	86.3	83.1	81.5
45°	5312.2	3403.5	322.9	247.8	196.6	142.3	100.7	83.1	73.5	70.3	70.3
47.5°	5620.7	3288.4	300.5	227.0	174.2	115.1	84.7	71.9	67.1	65.5	63.9
50°	5924.5	3133.3	281.4	207.8	148.7	94.3	73.5	65.5	62.3	60.7	60.7
52.5°	6189.8	2952.6	257.4	185.4	121.5	81.5	65.5	60.7	57.6	54.4	52.8
55°	6416.8	2756.0	227.0	159.9	99.1	71.9	60.7	56.0	52.8	49.6	48.0
57.5°	6709.4	2644.1	182.2	129.5	81.5	63.9	56.0	51.2	48.0	43.2	43.2
60°	7033.9	2562.6	135.9	102.3	70.3	59.1	51.2	46.4	43.2	38.4	38.4
62.5°	7294.5	2441.1	107.1	83.1	60.7	52.8	46.4	41.6	38.4	33.6	33.6
65°	7393.6	2190.1	87.9	65.5	49.6	46.4	41.6	38.4	33.6	28.8	28.8
67.5°	6946.0	1688.1	73.5	52.8	41.6	40.0	36.8	35.2	28.8	25.6	24.0
70°	5500.8	1029.5	60.7	43.2	35.2	33.6	33.6	30.4	25.6	24.0	22.4
72.5°	3769.5	530.7	49.6	35.2	30.4	30.4	28.8	27.2	24.0	22.4	22.4
75°	1958.3	177.4	38.4	27.2	24.0	25.6	25.6	24.0	22.4	22.4	20.8
77.5°	561.1	79.9	28.8	20.8	19.2	19.2	20.8	20.8	20.8	19.2	19.2
80°	145.5	46.4	20.8	16.0	16.0	16.0	16.0	17.6	19.2	17.6	17.6
82.5°	59.1	25.6	14.4	12.8	12.8	12.8	12.8	14.4	16.0	16.0	16.0
85°	36.8	12.8	11.2	11.2	11.2	9.6	9.6	11.2	11.2	12.8	12.8
87.5°	22.4	9.6	9.6	9.6	9.6	8.0	8.0	8.0	8.0	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

(END OF REPORT)