

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: P640482

Luminaire Tested: GWS-SA5D-830-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640482
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18681.4 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

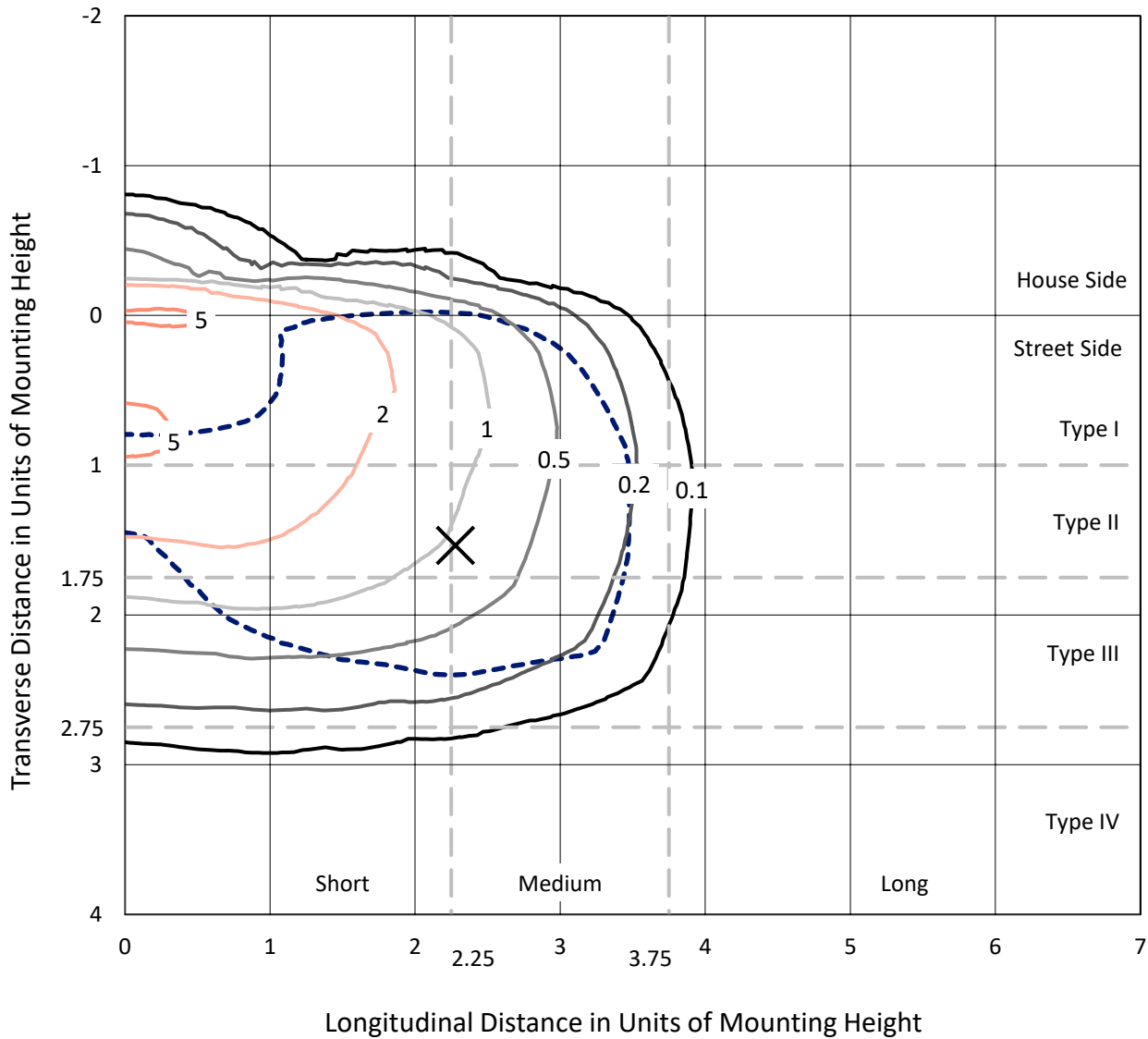
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

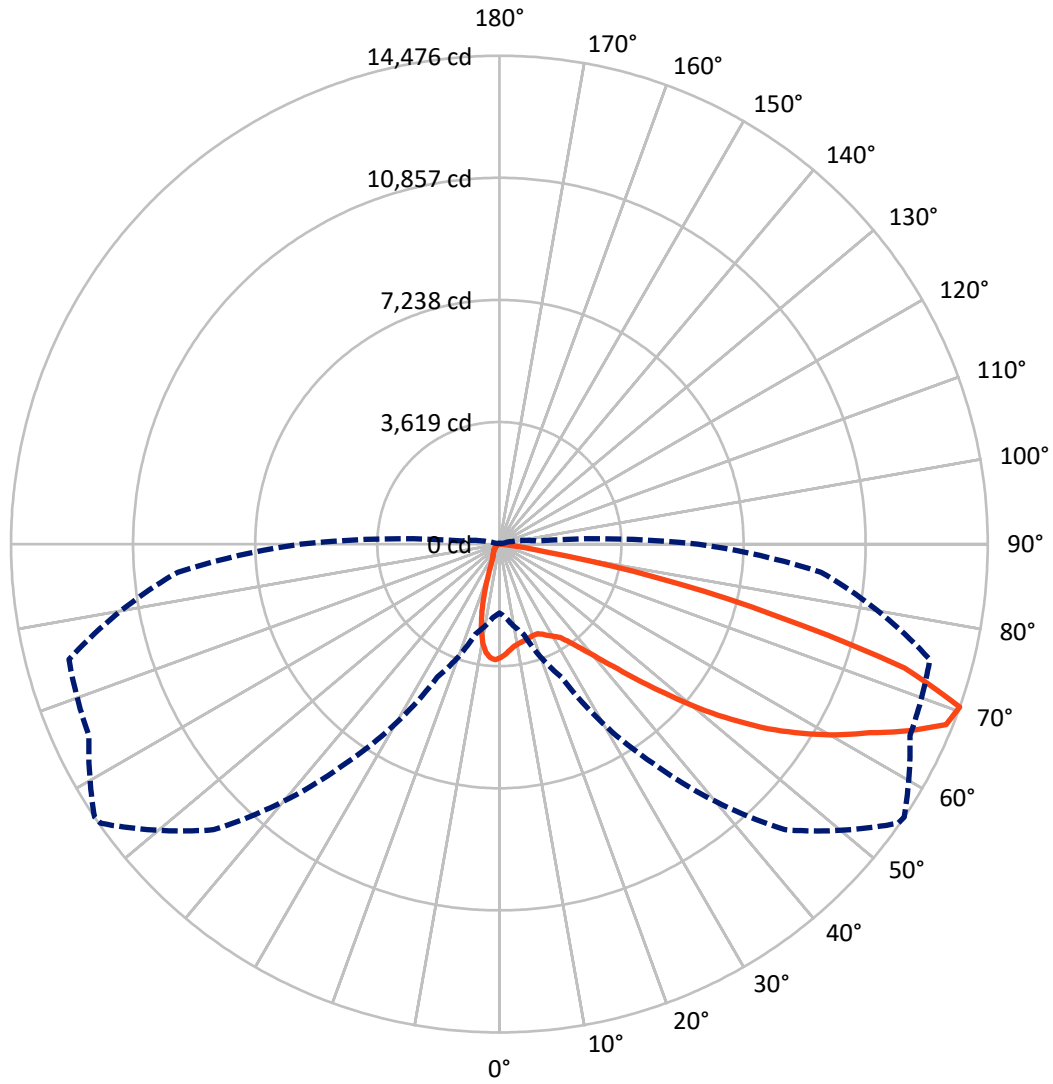
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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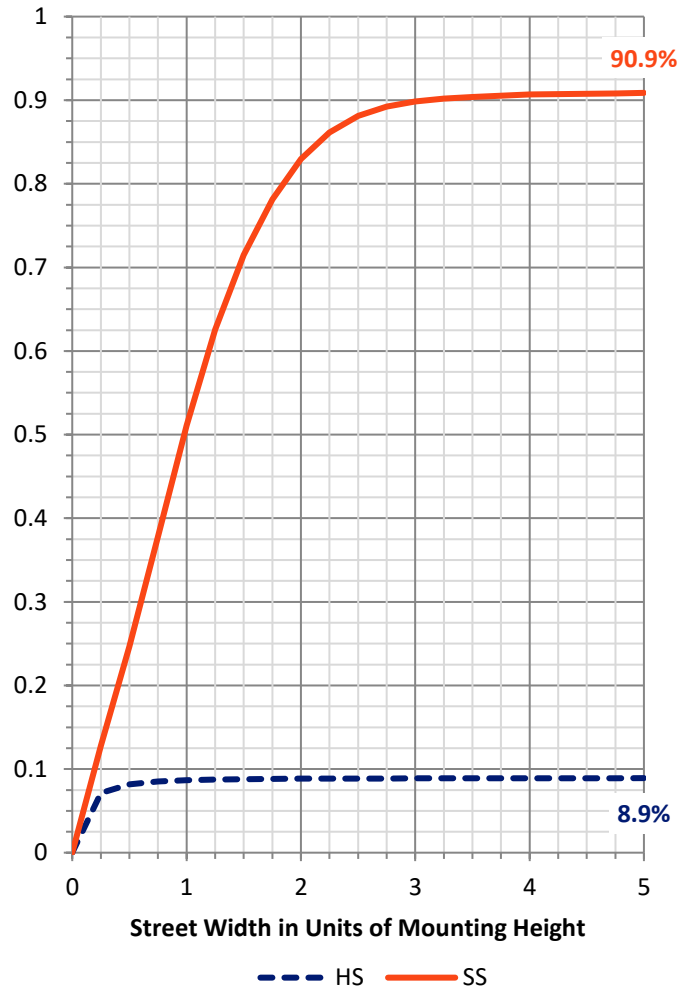
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1678.0	0.0	1678.0
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	17003.4	0.0	17003.4
	% Fixture	91.0	0.0	91.0
Total	Lumens	18681.4	0.0	18681.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.2	1.5
10°-20°	650.5	3.5
20°-30°	1030.3	5.5
30°-40°	1776.8	9.5
40°-50°	3000.4	16.1
50°-60°	4408.6	23.6
60°-70°	5226.7	28.0
70°-80°	2228.9	11.9
80°-90°	70.0	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°	18681.4	100.0
0°-180°	18681.4	100.0

Coefficient of Utilization



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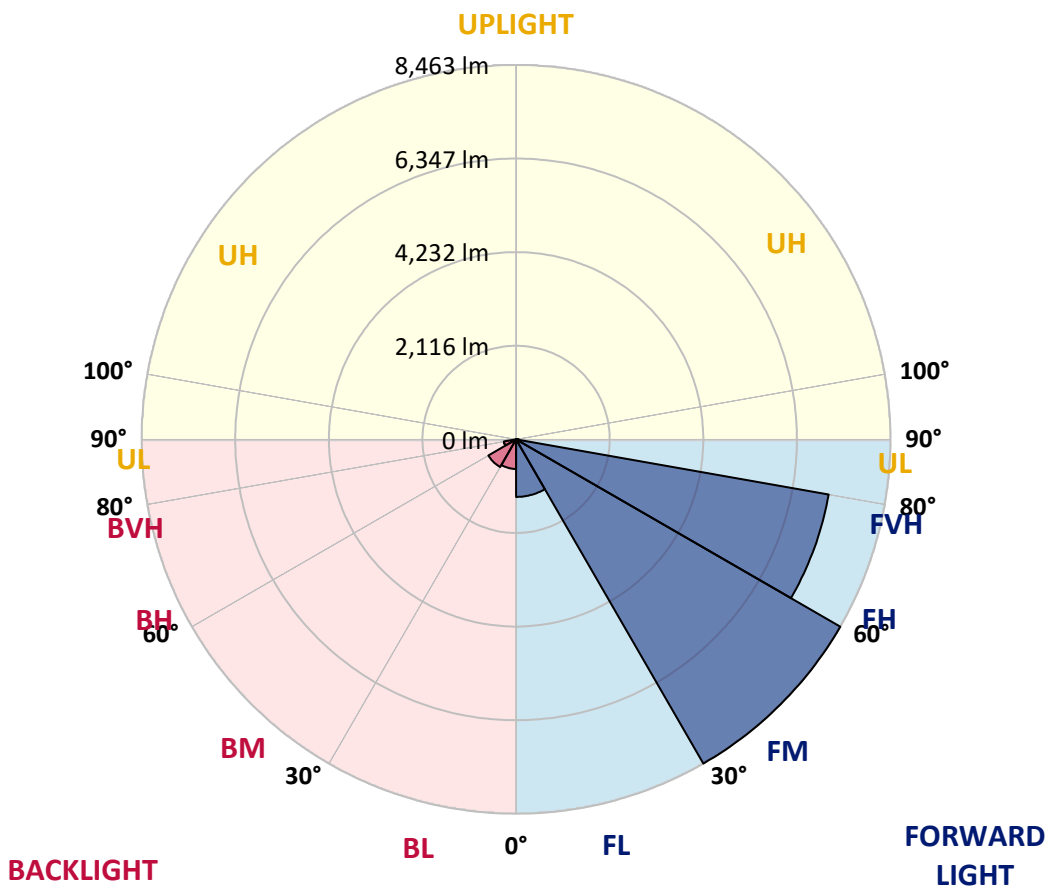
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1301.8	7.0			
FM (30°-60°)	8463.2	45.3			
FH (60°-80°)	7175.7	38.4			G3/7500
FVH (80°-90°)	62.9	0.3			G1/100
BL (0°-30°)	668.3	3.6	B2/1000		
BM (30°-60°)	722.7	3.9	B1/1000		
BH (60°-80°)	279.9	1.5	B1/500		G1/500
BVH (80°-90°)	7.1	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°	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4
2.5°	3135.8	3130.7	3134.1	3159.7	3207.6	3229.9	3267.5	3274.4	3305.1	3344.5	3359.9
5°	2932.2	2915.1	2923.7	2959.6	3014.3	3075.9	3146.0	3164.9	3241.8	3329.1	3394.1
7.5°	2745.7	2726.9	2747.4	2803.9	2880.9	2947.6	3052.0	3063.9	3187.1	3341.1	3459.1
10°	2453.2	2458.3	2499.4	2598.6	2716.7	2855.2	2995.5	3012.6	3164.9	3380.4	3563.5
12.5°	2229.1	2217.1	2261.6	2374.5	2540.4	2742.3	2952.7	2975.0	3166.6	3440.3	3696.9
15°	2124.7	2121.3	2140.1	2222.2	2383.1	2620.9	2913.4	2942.5	3188.8	3495.0	3823.5
17.5°	2128.2	2123.0	2121.3	2169.2	2289.0	2530.2	2870.6	2908.3	3207.6	3554.9	3956.9
20°	2277.0	2253.0	2210.3	2188.0	2259.9	2472.0	2841.5	2884.3	3235.0	3618.2	4098.9
22.5°	2588.3	2596.9	2482.3	2362.5	2328.3	2478.9	2838.1	2887.7	3294.9	3717.4	4273.4
25°	3211.1	3197.4	2985.2	2716.7	2530.2	2557.6	2898.0	2957.9	3412.9	3859.4	4437.7
27.5°	3991.2	4003.1	3712.3	3284.6	2894.6	2720.1	3007.5	3067.4	3549.8	3948.4	4547.1
30°	4841.4	4829.4	4518.1	4044.2	3411.2	2990.4	3117.0	3170.0	3618.2	3996.3	4660.1
32.5°	5645.4	5618.1	5310.1	4814.0	4069.8	3416.3	3267.5	3298.3	3708.9	4100.6	4812.3
35°	6331.4	6329.7	6061.1	5532.5	4747.3	3950.1	3525.8	3551.5	3878.2	4266.6	5036.4
37.5°	7039.7	7015.7	6714.6	6232.2	5443.6	4535.2	3921.0	3910.7	4145.1	4511.2	5311.8
40°	7621.3	7605.9	7375.0	6911.4	6167.2	5181.8	4400.0	4369.2	4461.6	4849.9	5695.0
42.5°	8052.4	8054.2	7982.3	7700.0	6933.6	5929.4	5002.2	4954.3	4952.6	5361.5	6201.4
45°	8379.2	8401.4	8509.2	8466.4	7838.6	6800.2	5773.7	5724.1	5640.3	6025.2	6781.4
47.5°	8531.5	8560.5	8885.6	9056.7	8630.7	7664.1	6692.4	6588.1	6423.8	6908.0	7429.7
50°	8516.1	8567.4	9020.7	9540.8	9349.2	8540.0	7693.2	7643.6	7375.0	7842.0	8071.3
52.5°	8167.1	8276.6	9029.3	9835.0	9901.8	9347.5	8728.2	8635.8	8505.8	8817.1	8673.4
55°	7219.3	7352.8	8668.3	9929.1	10332.9	10052.3	9740.9	9665.7	9450.1	9737.5	9198.6
57.5°	6704.4	6819.0	7908.7	9882.9	10699.0	10704.1	10642.5	10580.9	10403.0	10647.6	9814.5
60°	6394.7	6509.4	7503.3	9713.6	11030.8	11391.8	11489.3	11482.5	11225.9	11682.6	10536.4
62.5°	5941.4	6098.8	7080.7	9273.9	11266.9	12069.3	12363.5	12317.3	12031.6	12760.4	11251.5
65°	5026.2	5163.0	6215.1	8548.6	11128.4	12630.4	13311.3	13335.2	13005.0	13774.9	11816.1
67.5°	3524.1	3625.1	4670.3	7026.0	10187.4	12815.1	14281.2	14279.5	13716.7	14294.9	11566.3
70°	2042.6	2181.2	2759.4	4343.6	7925.9	11975.2	14426.7	14476.3	13427.6	13208.6	9571.6
72.5°	790.4	905.0	1563.6	2307.8	4133.1	9173.0	12409.7	12555.1	11237.8	10189.2	6661.6
75°	236.1	263.5	735.6	1228.3	1659.4	4430.8	8401.4	8442.5	7708.6	6355.4	3414.6
77.5°	176.2	195.0	321.6	621.0	581.7	1342.9	4347.0	4747.3	4092.1	2270.2	940.9
80°	119.8	142.0	229.2	302.8	215.6	357.5	1221.5	1341.2	1248.8	509.8	236.1
82.5°	53.0	68.4	162.5	152.3	78.7	102.6	376.4	400.3	258.3	154.0	82.1
85°	5.1	6.8	61.6	66.7	29.1	24.0	78.7	78.7	56.5	53.0	34.2
87.5°	0.0	0.0	1.7	3.4	3.4	5.1	6.8	8.6	10.3	13.7	17.1
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°	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4	3368.4
2.5°	3399.2	3378.7	3404.4	3424.9	3430.0	3392.4	3370.2	3337.7	3330.8	3332.5	3324.0
5°	3445.4	3435.2	3454.0	3431.7	3373.6	3264.1	3170.0	3065.6	3009.2	2976.7	2973.3
7.5°	3531.0	3525.8	3505.3	3404.4	3223.0	2980.1	2745.7	2516.5	2374.5	2323.2	2314.6
10°	3657.6	3647.3	3563.5	3324.0	2937.3	2470.3	2076.8	1748.4	1548.2	1490.1	1418.2
12.5°	3803.0	3782.4	3599.4	3151.2	2506.2	1859.6	1368.6	1000.8	828.0	776.7	776.7
15°	3943.3	3898.8	3578.9	2865.5	1975.9	1209.5	764.7	578.2	525.2	511.5	511.5
17.5°	4087.0	4001.4	3498.5	2475.4	1365.2	715.1	509.8	473.9	467.0	468.7	470.5
20°	4222.1	4088.7	3356.5	2006.7	870.8	499.5	456.8	448.2	444.8	448.2	446.5
22.5°	4369.2	4169.1	3140.9	1495.2	566.3	449.9	434.5	427.7	424.3	429.4	429.4
25°	4514.6	4227.2	2855.2	1005.9	449.9	419.1	410.6	403.7	400.3	402.0	402.0
27.5°	4589.9	4205.0	2480.6	641.5	403.7	388.3	379.8	371.2	366.1	364.4	366.1
30°	4641.2	4136.6	2022.1	456.8	366.1	347.3	338.7	331.9	318.2	309.6	313.1
32.5°	4721.6	4068.1	1524.3	383.2	335.3	306.2	292.5	275.4	256.6	248.1	248.1
35°	4817.4	3974.0	1069.2	345.6	302.8	272.0	246.3	217.3	195.0	188.2	188.2
37.5°	4944.0	3885.1	711.7	319.9	275.4	242.9	207.0	172.8	148.8	145.4	143.7
40°	5133.9	3809.8	501.2	301.1	251.5	212.1	169.4	133.4	116.3	111.2	111.2
42.5°	5380.3	3732.8	396.9	282.3	230.9	183.0	135.1	106.1	92.4	89.0	87.2
45°	5684.8	3642.2	345.6	265.2	210.4	152.3	107.8	89.0	78.7	75.3	75.3
47.5°	6015.0	3519.0	321.6	242.9	186.5	123.2	90.7	77.0	71.9	70.1	68.4
50°	6340.0	3353.0	301.1	222.4	159.1	100.9	78.7	70.1	66.7	65.0	65.0
52.5°	6624.0	3159.7	275.4	198.4	130.0	87.2	70.1	65.0	61.6	58.2	56.5
55°	6866.9	2949.3	242.9	171.1	106.1	77.0	65.0	59.9	56.5	53.0	51.3
57.5°	7180.0	2829.6	195.0	138.6	87.2	68.4	59.9	54.7	51.3	46.2	46.2
60°	7527.3	2742.3	145.4	109.5	75.3	63.3	54.7	49.6	46.2	41.1	41.1
62.5°	7806.1	2612.3	114.6	89.0	65.0	56.5	49.6	44.5	41.1	35.9	35.9
65°	7912.2	2343.7	94.1	70.1	53.0	49.6	44.5	41.1	35.9	30.8	30.8
67.5°	7433.2	1806.5	78.7	56.5	44.5	42.8	39.3	37.6	30.8	27.4	25.7
70°	5886.7	1101.7	65.0	46.2	37.6	35.9	35.9	32.5	27.4	25.7	24.0
72.5°	4033.9	568.0	53.0	37.6	32.5	32.5	30.8	29.1	25.7	24.0	24.0
75°	2095.7	189.9	41.1	29.1	25.7	27.4	27.4	25.7	24.0	24.0	22.2
77.5°	600.5	85.5	30.8	22.2	20.5	20.5	22.2	22.2	22.2	20.5	20.5
80°	155.7	49.6	22.2	17.1	17.1	17.1	17.1	18.8	20.5	18.8	18.8
82.5°	63.3	27.4	15.4	13.7	13.7	13.7	13.7	15.4	17.1	17.1	17.1
85°	39.3	13.7	12.0	12.0	12.0	10.3	10.3	12.0	12.0	13.7	13.7
87.5°	24.0	10.3	10.3	10.3	10.3	8.6	8.6	8.6	8.6	8.6	8.6
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)