

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: P637842

Luminaire Tested: GWS-SA4D-750-U-T3R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637842
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-750-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) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19609.8 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

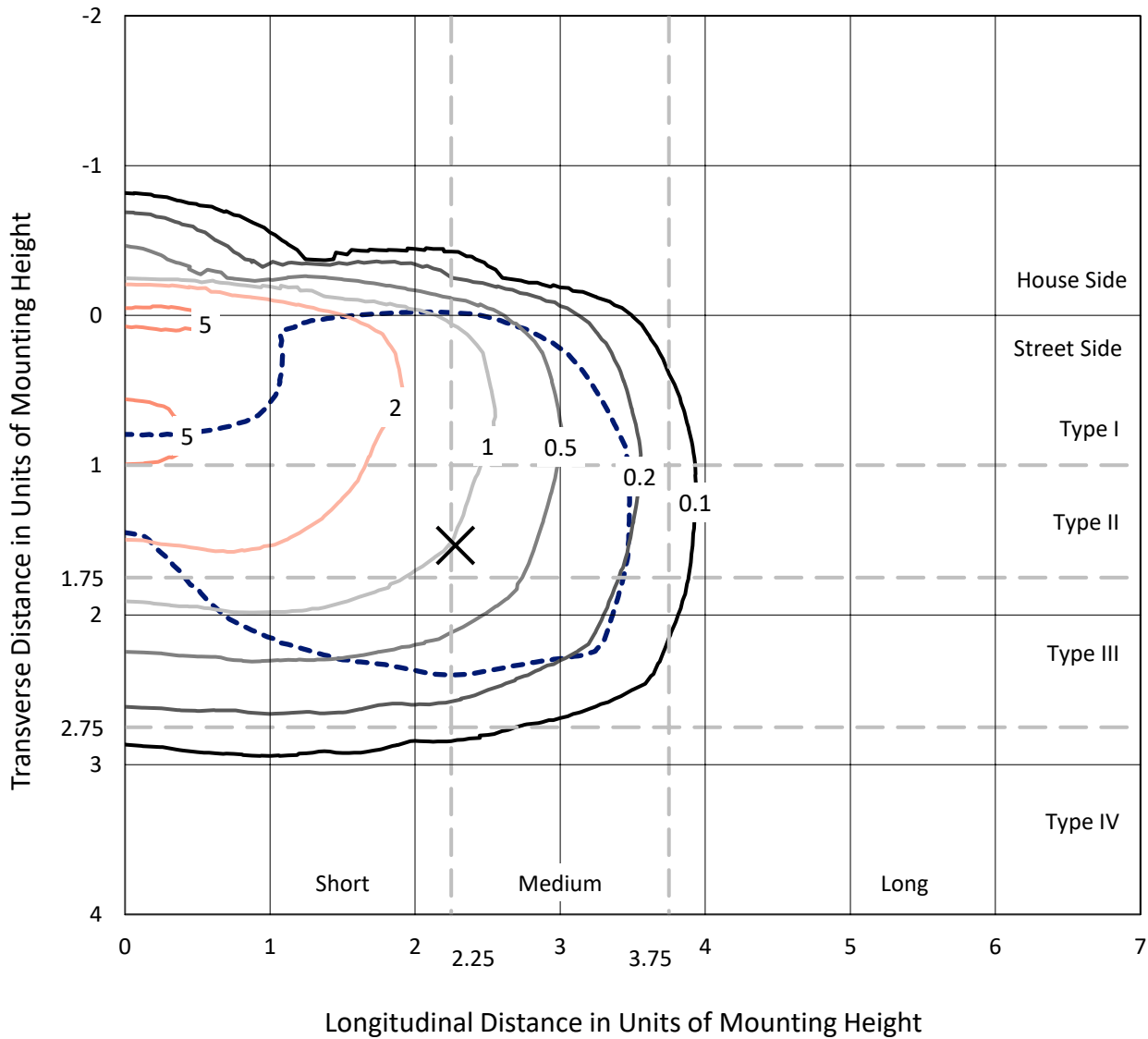
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

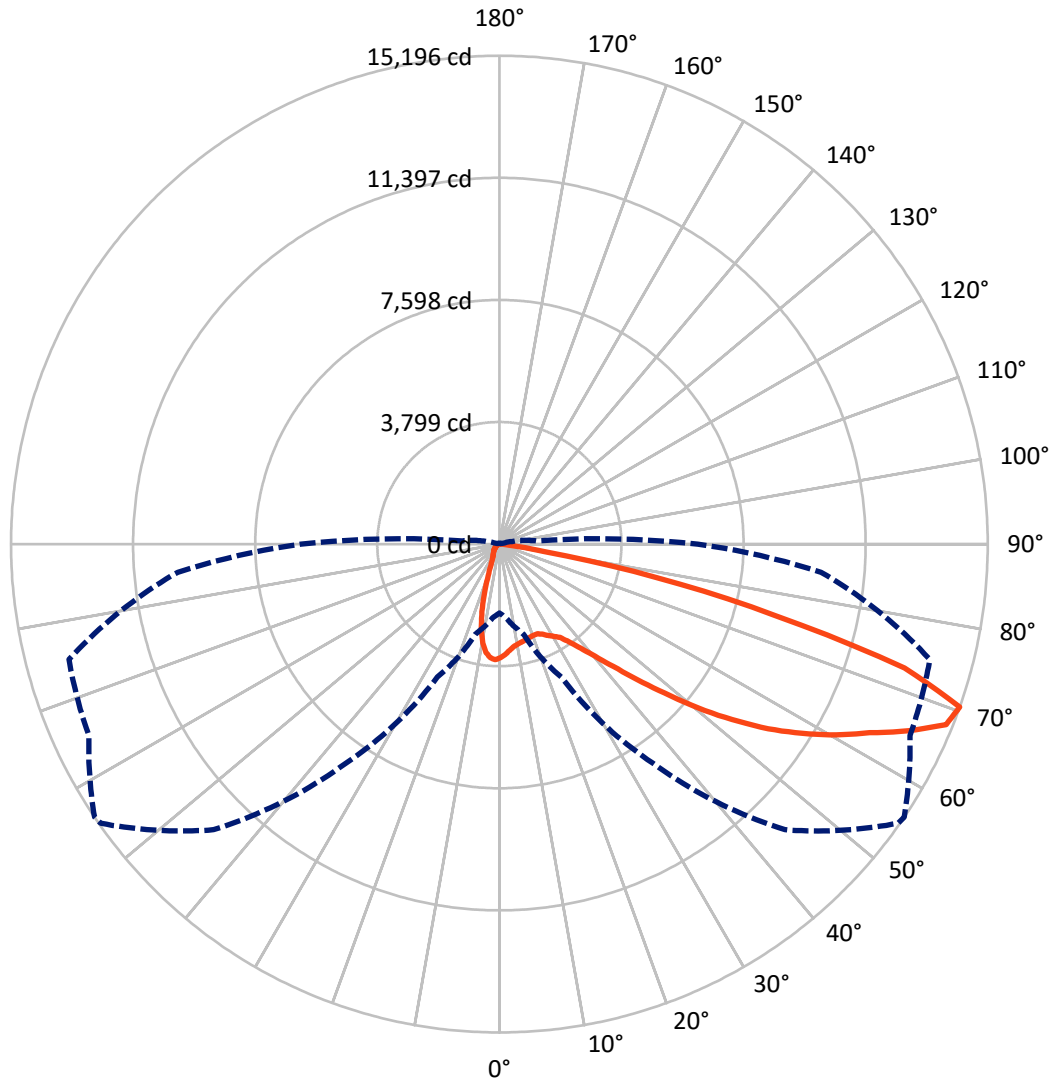
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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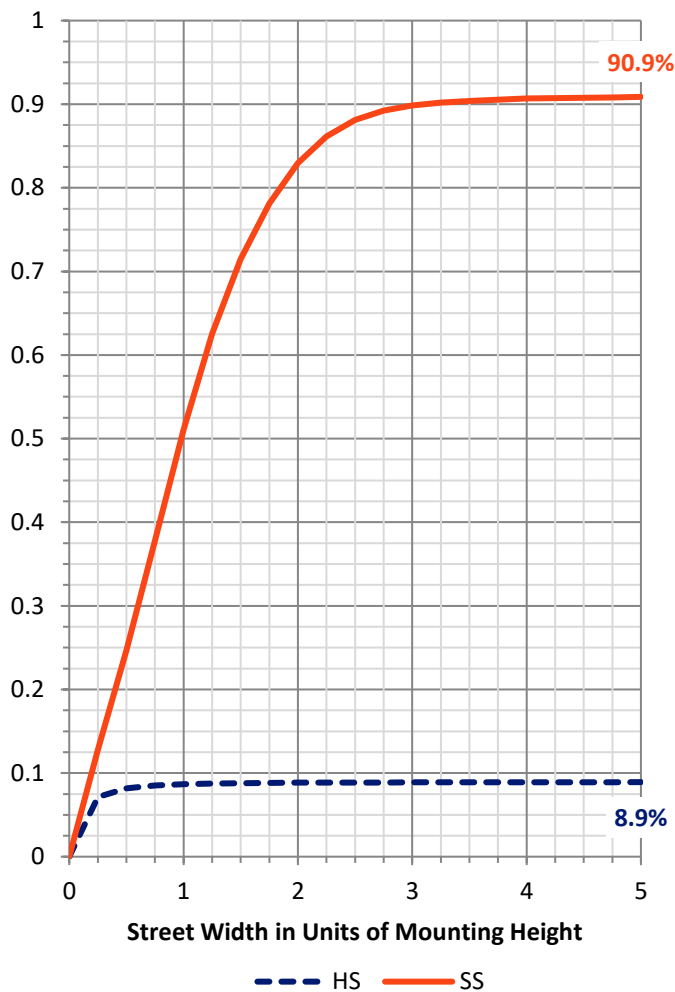
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1761.3	0.0	1761.3
	% Fixture	9.0	0.0	9.0
Street Side	Lumens	17848.5	0.0	17848.5
	% Fixture	91.0	0.0	91.0
Total	Lumens	19609.8	0.0	19609.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.6	1.5
10°-20°	682.8	3.5
20°-30°	1081.5	5.5
30°-40°	1865.1	9.5
40°-50°	3149.6	16.1
50°-60°	4627.7	23.6
60°-70°	5486.4	28.0
70°-80°	2339.6	11.9
80°-90°	73.5	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°	19609.8	100.0
0°-180°	19609.8	100.0

Coefficient of Utilization



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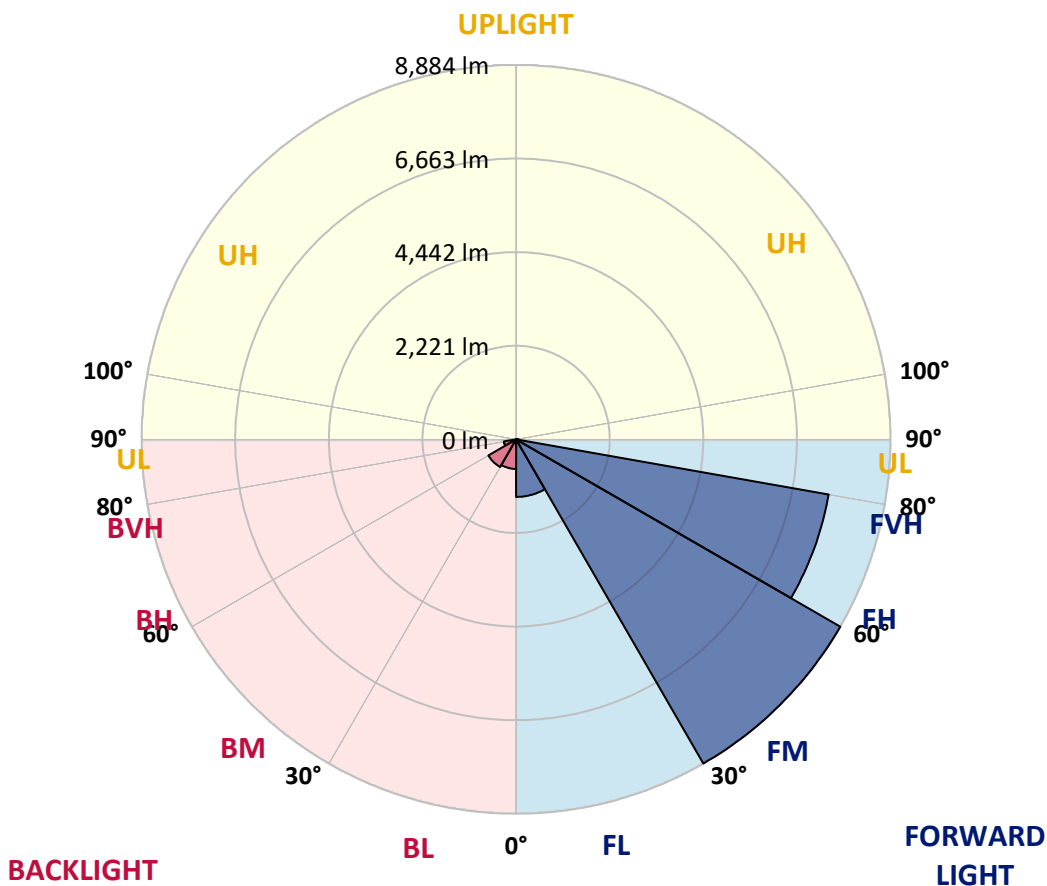
CATALOG NUMBER: GWS-SA4D-750-U-T3R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1366.4	7.0			
FM (30°-60°)	8883.8	45.3			
FH (60°-80°)	7532.3	38.4			G4/12000
FVH (80°-90°)	66.0	0.3			G1/100
BL (0°-30°)	701.5	3.6	B2/1000		
BM (30°-60°)	758.6	3.9	B1/1000		
BH (60°-80°)	293.8	1.5	B1/500		G1/500
BVH (80°-90°)	7.5	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8
2.5°	3291.6	3286.2	3289.8	3316.8	3367.0	3390.4	3429.9	3437.1	3469.4	3510.7	3526.9
5°	3077.9	3060.0	3068.9	3106.7	3164.1	3228.8	3302.4	3322.1	3403.0	3494.5	3562.8
7.5°	2882.2	2862.4	2884.0	2943.2	3024.1	3094.1	3203.6	3216.2	3345.5	3507.1	3631.0
10°	2575.1	2580.5	2623.6	2727.8	2851.7	2997.1	3144.4	3162.3	3322.1	3548.4	3740.6
12.5°	2339.9	2327.3	2374.0	2492.5	2666.7	2878.6	3099.5	3122.8	3323.9	3611.3	3880.6
15°	2230.3	2226.7	2246.5	2332.7	2501.5	2751.1	3058.2	3088.7	3347.3	3668.7	4013.5
17.5°	2233.9	2228.5	2226.7	2277.0	2402.7	2655.9	3013.3	3052.8	3367.0	3731.6	4153.6
20°	2390.2	2365.0	2320.1	2296.8	2372.2	2594.9	2982.8	3027.6	3395.8	3798.0	4302.6
22.5°	2717.0	2726.0	2605.6	2479.9	2444.0	2602.1	2979.2	3031.2	3458.6	3902.2	4485.8
25°	3370.6	3356.3	3133.6	2851.7	2655.9	2684.7	3042.0	3104.9	3582.5	4051.2	4658.2
27.5°	4189.5	4202.1	3896.8	3447.9	3038.4	2855.3	3156.9	3219.8	3726.2	4144.6	4773.1
30°	5082.0	5069.4	4742.6	4245.2	3580.7	3139.0	3271.9	3327.5	3798.0	4194.9	4891.6
32.5°	5926.0	5897.3	5574.0	5053.3	4272.1	3586.1	3429.9	3462.2	3893.2	4304.4	5051.5
35°	6646.1	6644.3	6362.4	5807.5	4983.2	4146.4	3701.1	3728.0	4071.0	4478.6	5286.7
37.5°	7389.5	7364.4	7048.3	6541.9	5714.1	4760.6	4115.9	4105.1	4351.1	4735.4	5575.8
40°	8000.1	7983.9	7741.5	7254.9	6473.7	5439.3	4618.7	4586.4	4683.3	5091.0	5978.1
42.5°	8452.6	8454.4	8379.0	8082.7	7278.2	6224.1	5250.8	5200.5	5198.7	5627.9	6509.6
45°	8795.6	8819.0	8932.1	8887.2	8228.2	7138.1	6060.7	6008.6	5920.6	6324.7	7118.4
47.5°	8955.4	8986.0	9327.2	9506.7	9059.6	8045.0	7025.0	6915.5	6743.1	7251.3	7799.0
50°	8939.3	8993.1	9469.0	10014.9	9813.8	8964.4	8075.5	8023.4	7741.5	8231.7	8472.4
52.5°	8572.9	8687.9	9478.0	10323.8	10393.8	9812.0	9161.9	9065.0	8928.5	9255.3	9104.5
55°	7578.1	7718.2	9099.1	10422.6	10846.4	10551.9	10225.0	10146.0	9919.8	10221.4	9655.8
57.5°	7037.6	7157.9	8301.8	10374.1	11230.7	11236.0	11171.4	11106.8	10920.0	11176.8	10302.3
60°	6712.5	6832.9	7876.2	10196.3	11579.0	11957.9	12060.3	12053.1	11783.8	12263.2	11060.1
62.5°	6236.7	6401.9	7432.6	9734.8	11826.9	12669.1	12977.9	12929.4	12629.6	13394.5	11810.7
65°	5275.9	5419.6	6524.0	8973.4	11681.4	13258.1	13972.8	13997.9	13651.3	14459.4	12403.3
67.5°	3699.3	3805.2	4902.4	7375.2	10693.7	13452.0	14991.0	14989.2	14398.4	15005.3	12141.1
70°	2144.1	2289.6	2896.6	4559.4	8319.7	12570.3	15143.6	15195.7	14094.9	13865.0	10047.3
72.5°	829.6	950.0	1641.3	2422.5	4338.5	9628.8	13026.4	13179.1	11796.3	10695.5	6992.7
75°	247.8	276.5	772.2	1289.4	1741.9	4651.0	8819.0	8862.1	8091.7	6671.2	3584.3
77.5°	185.0	204.7	337.6	651.9	610.6	1409.7	4563.0	4983.2	4295.4	2383.0	987.7
80°	125.7	149.0	240.6	317.8	226.3	375.3	1282.2	1407.9	1310.9	535.1	247.8
82.5°	55.7	71.8	170.6	159.8	82.6	107.7	395.1	420.2	271.2	161.6	86.2
85°	5.4	7.2	64.6	70.0	30.5	25.1	82.6	82.6	59.3	55.7	35.9
87.5°	0.0	0.0	1.8	3.6	3.6	5.4	7.2	9.0	10.8	14.4	18.0
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°	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8	3535.8
2.5°	3568.2	3546.6	3573.6	3595.1	3600.5	3561.0	3537.6	3503.5	3496.3	3498.1	3489.2
5°	3616.7	3605.9	3625.6	3602.3	3541.2	3426.3	3327.5	3218.0	3158.7	3124.6	3121.0
7.5°	3706.4	3701.1	3679.5	3573.6	3383.2	3128.2	2882.2	2641.6	2492.5	2438.6	2429.7
10°	3839.3	3828.6	3740.6	3489.2	3083.3	2593.1	2180.0	1835.3	1625.2	1564.1	1488.7
12.5°	3992.0	3970.4	3778.3	3307.8	2630.8	1952.0	1436.6	1050.5	869.1	815.3	815.3
15°	4139.2	4092.5	3756.7	3007.9	2074.1	1269.6	802.7	607.0	551.3	536.9	536.9
17.5°	4290.1	4200.3	3672.3	2598.5	1433.0	750.6	535.1	497.4	490.2	492.0	493.8
20°	4431.9	4291.9	3523.3	2106.4	914.0	524.4	479.5	470.5	466.9	470.5	468.7
22.5°	4586.4	4376.3	3297.0	1569.5	594.4	472.3	456.1	448.9	445.3	450.7	450.7
25°	4739.0	4437.3	2997.1	1055.9	472.3	440.0	431.0	423.8	420.2	422.0	422.0
27.5°	4818.0	4414.0	2603.8	673.4	423.8	407.6	398.7	389.7	384.3	382.5	384.3
30°	4871.9	4342.1	2122.6	479.5	384.3	364.5	355.6	348.4	334.0	325.0	328.6
32.5°	4956.3	4270.3	1600.0	402.2	352.0	321.4	307.1	289.1	269.4	260.4	260.4
35°	5056.8	4171.5	1122.3	362.7	317.8	285.5	258.6	228.1	204.7	197.5	197.5
37.5°	5189.7	4078.2	747.0	335.8	289.1	255.0	217.3	181.4	156.2	152.6	150.8
40°	5389.1	3999.1	526.2	316.1	264.0	222.7	177.8	140.1	122.1	116.7	116.7
42.5°	5647.7	3918.3	416.6	296.3	242.4	192.1	141.9	111.3	97.0	93.4	91.6
45°	5967.3	3823.2	362.7	278.3	220.9	159.8	113.1	93.4	82.6	79.0	79.0
47.5°	6313.9	3693.9	337.6	255.0	195.7	129.3	95.2	80.8	75.4	73.6	71.8
50°	6655.1	3519.7	316.1	233.4	167.0	105.9	82.6	73.6	70.0	68.2	68.2
52.5°	6953.2	3316.8	289.1	208.3	136.5	91.6	73.6	68.2	64.6	61.1	59.3
55°	7208.2	3095.9	255.0	179.6	111.3	80.8	68.2	62.9	59.3	55.7	53.9
57.5°	7536.8	2970.2	204.7	145.5	91.6	71.8	62.9	57.5	53.9	48.5	48.5
60°	7901.3	2878.6	152.6	114.9	79.0	66.4	57.5	52.1	48.5	43.1	43.1
62.5°	8194.0	2742.1	120.3	93.4	68.2	59.3	52.1	46.7	43.1	37.7	37.7
65°	8305.4	2460.2	98.8	73.6	55.7	52.1	46.7	43.1	37.7	32.3	32.3
67.5°	7802.6	1896.3	82.6	59.3	46.7	44.9	41.3	39.5	32.3	28.7	26.9
70°	6179.2	1156.5	68.2	48.5	39.5	37.7	37.7	34.1	28.7	26.9	25.1
72.5°	4234.4	596.2	55.7	39.5	34.1	34.1	32.3	30.5	26.9	25.1	25.1
75°	2199.8	199.3	43.1	30.5	26.9	28.7	28.7	26.9	25.1	25.1	23.3
77.5°	630.3	89.8	32.3	23.3	21.5	21.5	23.3	23.3	23.3	21.5	21.5
80°	163.4	52.1	23.3	18.0	18.0	18.0	18.0	19.8	21.5	19.8	19.8
82.5°	66.4	28.7	16.2	14.4	14.4	14.4	14.4	16.2	18.0	18.0	18.0
85°	41.3	14.4	12.6	12.6	12.6	10.8	10.8	12.6	12.6	14.4	14.4
87.5°	25.1	10.8	10.8	10.8	10.8	9.0	9.0	9.0	9.0	9.0	9.0
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)