

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: P638388

Luminaire Tested: GWS-SA4E-760-U-T3-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638388
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-26)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-T3-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22666.7 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

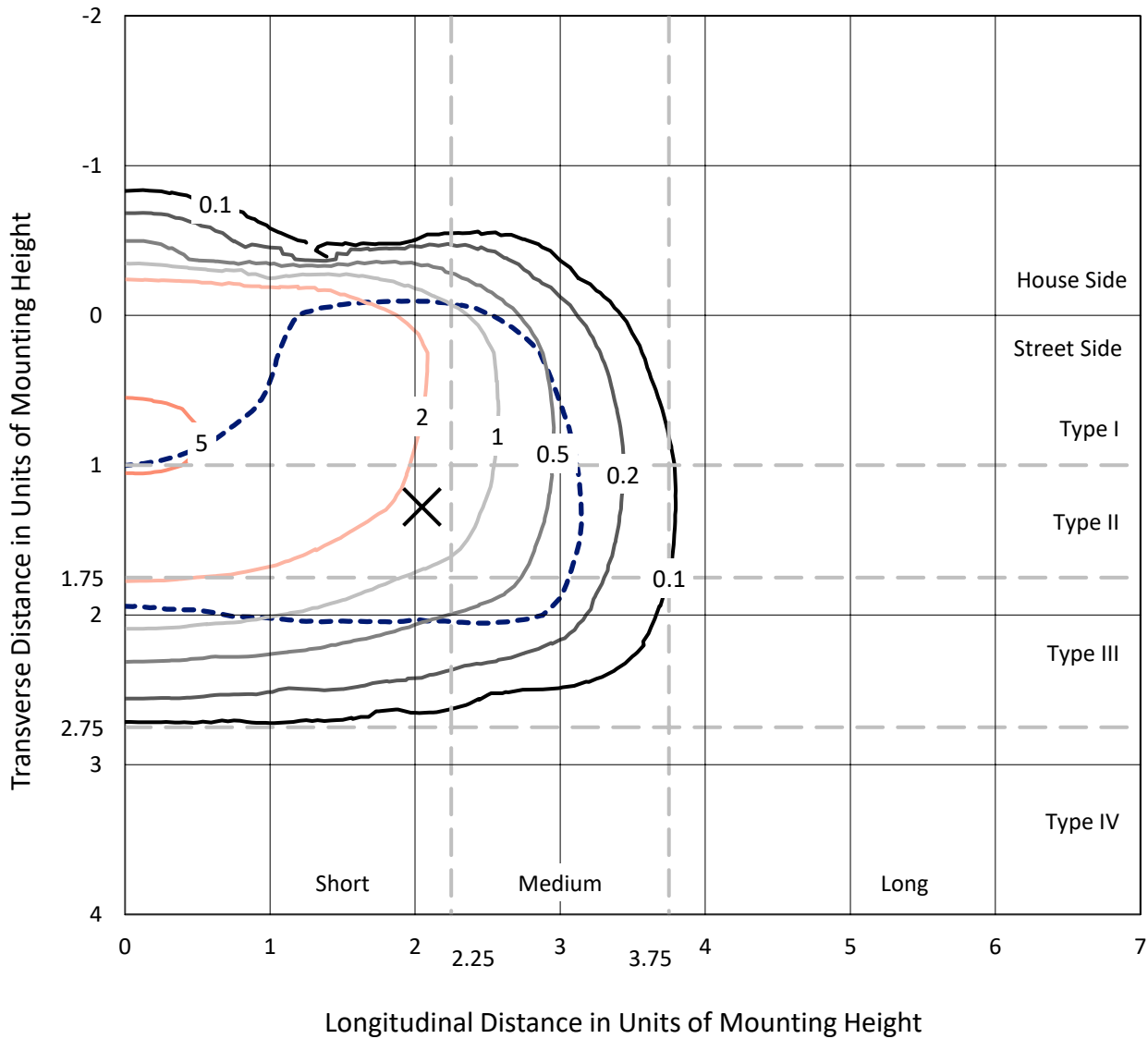
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

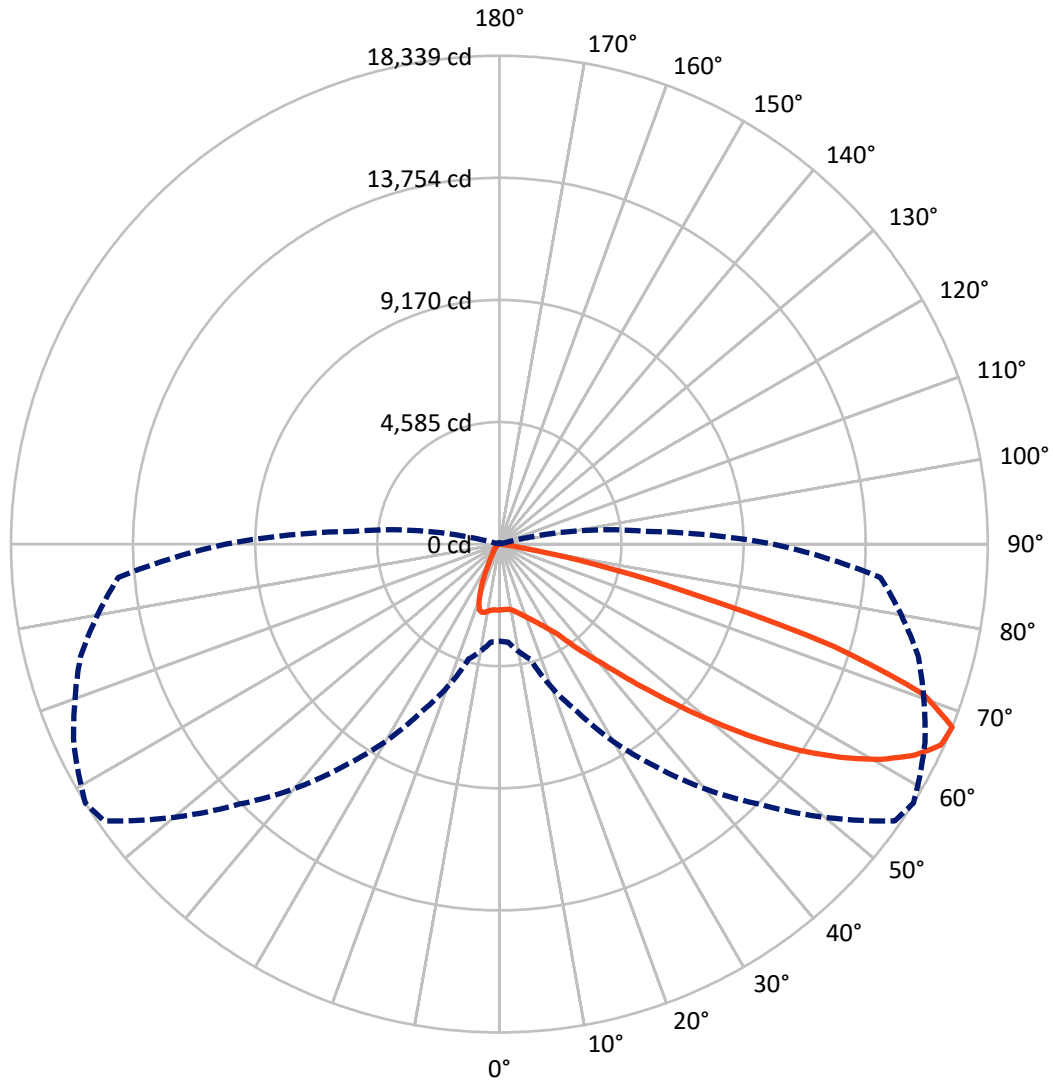
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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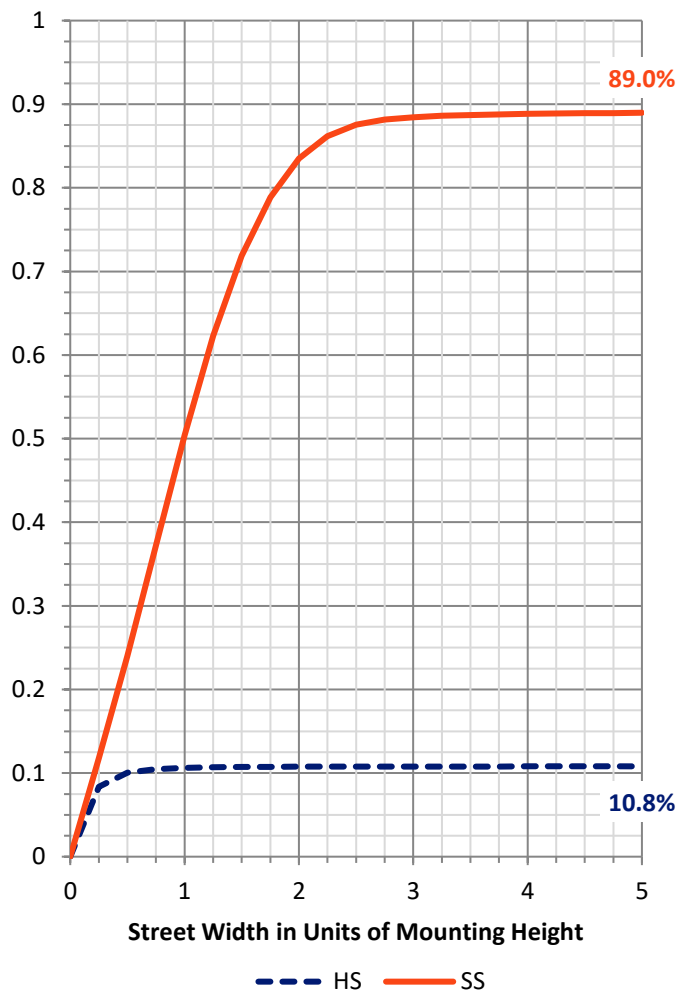
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2472.9	0.0	2472.9
	% Fixture	10.9	0.0	10.9
Street Side	Lumens	20193.8	0.0	20193.8
	% Fixture	89.1	0.0	89.1
Total	Lumens	22666.7	0.0	22666.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	1.0
10°-20°	651.5	2.9
20°-30°	1137.1	5.0
30°-40°	2030.8	9.0
40°-50°	3711.9	16.4
50°-60°	6173.3	27.2
60°-70°	6705.3	29.6
70°-80°	1968.7	8.7
80°-90°	56.1	0.2
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°	22666.7	100.0
0°-180°	22666.7	100.0

Coefficient of Utilization



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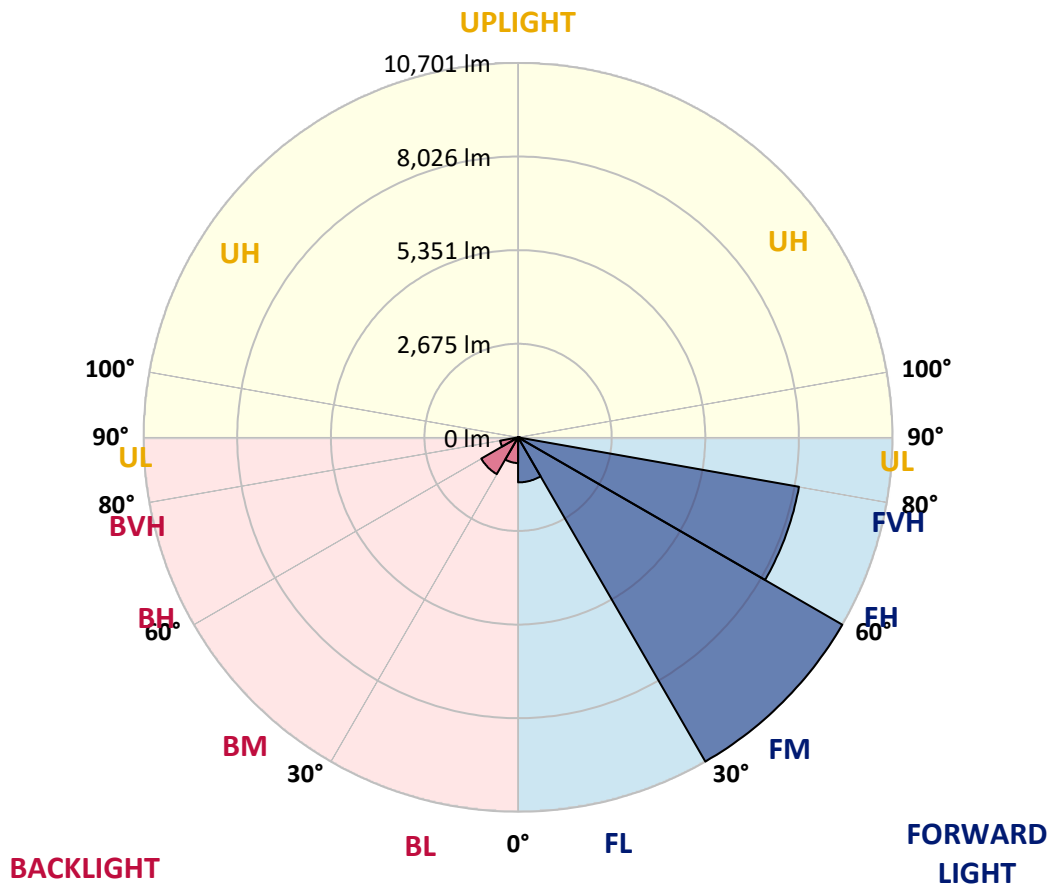
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.1	5.7			
FM (30°-60°)	10701.4	47.2			
FH (60°-80°)	8152.0	36.0			G4/12000
FVH (80°-90°)	53.3	0.2			G1/100
BL (0°-30°)	733.5	3.2	B2/1000		
BM (30°-60°)	1214.6	5.4	B2/2500		
BH (60°-80°)	522.0	2.3	B2/1000		G2/1000
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0
2.5°	2423.5	2419.1	2419.1	2436.8	2439.0	2447.9	2467.8	2470.0	2481.1	2476.6	2461.1
5°	2297.4	2299.6	2312.9	2343.8	2370.4	2403.6	2452.3	2463.4	2487.7	2501.0	2492.1
7.5°	2180.1	2182.3	2202.2	2250.9	2301.8	2368.2	2447.9	2470.0	2518.7	2554.1	2556.3
10°	2135.8	2133.6	2153.5	2208.8	2275.2	2368.2	2483.3	2512.0	2585.1	2647.1	2658.1
12.5°	2149.1	2146.9	2166.8	2217.7	2290.7	2408.0	2545.2	2585.1	2678.0	2773.2	2793.1
15°	2202.2	2200.0	2213.3	2255.3	2335.0	2456.7	2624.9	2684.7	2802.0	2917.1	2948.1
17.5°	2361.5	2350.5	2337.2	2341.6	2388.1	2514.3	2726.7	2799.8	2945.8	3083.1	3109.6
20°	2644.8	2616.1	2580.7	2534.2	2512.0	2598.4	2844.0	2928.1	3105.2	3262.3	3266.8
22.5°	3072.0	3060.9	2979.0	2844.0	2748.9	2751.1	2981.3	3078.6	3295.5	3468.2	3443.8
25°	3667.4	3660.7	3534.6	3313.2	3065.4	2981.3	3156.1	3255.7	3521.3	3705.0	3627.5
27.5°	4406.6	4360.1	4211.8	3913.0	3543.4	3280.0	3377.4	3466.0	3760.3	3933.0	3786.9
30°	5050.6	5052.9	4913.4	4601.4	4185.3	3729.3	3647.4	3724.9	3979.4	4160.9	3983.9
32.5°	5670.4	5690.3	5537.6	5256.5	4800.6	4315.8	4034.8	4048.0	4260.5	4457.5	4242.8
35°	6245.8	6261.3	6155.1	5916.0	5491.1	4928.9	4574.8	4568.2	4683.2	4884.7	4603.6
37.5°	6889.9	6905.4	6801.3	6586.6	6188.3	5630.5	5187.9	5179.0	5225.5	5389.3	5068.4
40°	7576.0	7604.7	7489.7	7308.2	6927.5	6456.1	5900.5	5820.9	5774.4	5966.9	5670.4
42.5°	8270.9	8315.2	8275.4	8093.9	7768.5	7379.0	6825.7	6701.7	6602.1	6843.4	6529.1
45°	9134.1	9187.2	9169.5	9030.1	8777.8	8461.3	7938.9	7795.1	7748.6	7972.1	7598.1
47.5°	9964.1	10021.6	10085.8	10054.8	9875.5	9729.5	9149.6	9067.7	9054.4	9293.5	8713.6
50°	10581.6	10634.7	10880.4	11057.4	11179.2	11148.2	10645.8	10524.0	10504.1	10656.8	9891.0
52.5°	11024.2	11075.1	11413.8	11967.1	12414.1	12657.6	12150.8	12124.2	12015.8	11962.6	10993.2
55°	11367.3	11438.1	11794.4	12631.0	13531.8	14071.9	13755.4	13660.2	13381.3	13075.9	12015.8
57.5°	11435.9	11464.7	11967.1	13095.8	14399.4	15273.7	15273.7	15107.7	14569.9	14147.1	13197.6
60°	10820.6	10909.1	11588.6	13058.2	14771.3	16059.4	16533.0	16417.9	15692.0	15171.9	14335.3
62.5°	9455.0	9554.6	10382.4	12157.4	14399.4	16220.9	17486.9	17469.2	16650.3	16019.5	15278.1
65°	7250.6	7323.7	8045.2	10169.9	12828.0	15599.0	18168.6	18217.3	17407.3	16579.5	15603.5
67.5°	3643.0	3693.9	4473.0	6947.4	10167.7	13808.5	18122.1	18339.0	17637.4	16282.9	14361.8
70°	1272.6	1323.5	1690.9	2981.3	6188.3	10543.9	16555.2	16909.3	16285.1	13899.2	10594.9
72.5°	436.0	460.4	701.6	1106.6	2408.0	6250.2	12589.0	13122.4	12004.7	9331.1	6088.7
75°	247.9	263.4	376.3	599.8	1009.2	2056.1	7142.2	7469.7	6998.3	5086.1	2505.4
77.5°	168.2	181.5	234.6	340.8	557.7	661.8	2912.6	3667.4	3198.2	1659.9	639.6
80°	99.6	108.4	143.9	201.4	285.5	256.7	624.1	830.0	1069.0	495.8	192.6
82.5°	46.5	53.1	93.0	132.8	143.9	108.4	183.7	223.5	301.0	243.5	79.7
85°	0.0	0.0	31.0	55.3	53.1	31.0	50.9	55.3	81.9	121.7	31.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.2	4.4	6.6	13.3	24.3	13.3
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°	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0	2470.0
2.5°	2478.8	2463.4	2481.1	2472.2	2481.1	2478.8	2461.1	2450.1	2450.1	2430.2	2423.5
5°	2509.8	2494.3	2498.8	2478.8	2474.4	2463.4	2441.2	2432.4	2432.4	2412.4	2405.8
7.5°	2578.4	2554.1	2549.7	2509.8	2492.1	2461.1	2421.3	2405.8	2403.6	2383.7	2377.0
10°	2686.9	2658.1	2638.2	2587.3	2536.4	2474.4	2390.3	2319.5	2279.7	2226.5	2222.1
12.5°	2819.7	2784.3	2753.3	2675.8	2591.7	2452.3	2204.4	1945.5	1786.1	1659.9	1668.8
15°	2968.0	2934.8	2886.1	2768.8	2596.1	2233.2	1715.3	1316.9	1122.1	1018.1	1013.7
17.5°	3129.5	3080.9	3001.2	2841.8	2456.7	1706.4	1115.5	787.9	686.1	650.7	641.8
20°	3280.0	3220.3	3120.7	2857.3	2053.9	1155.3	697.2	610.9	593.2	582.1	582.1
22.5°	3439.4	3364.1	3215.9	2737.8	1527.1	739.2	593.2	573.2	560.0	544.5	542.2
25°	3601.0	3503.6	3302.2	2425.7	1000.4	582.1	555.5	533.4	509.0	484.7	478.1
27.5°	3738.2	3612.0	3368.6	1960.9	641.8	524.5	506.8	469.2	436.0	409.5	405.0
30°	3902.0	3740.4	3397.3	1434.2	504.6	462.6	436.0	396.2	356.3	329.8	320.9
32.5°	4121.1	3944.0	3353.1	934.0	447.1	407.2	365.2	318.7	278.9	250.1	245.7
35°	4461.9	4251.7	3149.5	595.4	405.0	351.9	301.0	252.3	219.1	197.0	192.6
37.5°	4878.0	4683.2	2815.3	447.1	363.0	305.4	245.7	199.2	174.8	159.4	154.9
40°	5495.5	5223.3	2401.4	391.7	320.9	259.0	201.4	163.8	146.1	132.8	128.4
42.5°	6296.7	5860.7	1925.5	356.3	281.1	216.9	163.8	135.0	119.5	110.7	108.4
45°	7232.9	6482.6	1423.1	320.9	243.5	179.3	135.0	110.7	99.6	93.0	90.7
47.5°	8191.3	7027.1	982.7	283.3	208.0	148.3	112.9	95.2	86.3	77.5	75.3
50°	9213.8	7487.4	670.6	245.7	177.1	121.7	97.4	86.3	75.3	68.6	66.4
52.5°	9964.1	7657.9	467.0	212.5	150.5	104.0	86.3	77.5	68.6	59.8	57.5
55°	10656.8	7653.4	354.1	179.3	128.4	90.7	77.5	68.6	59.8	53.1	50.9
57.5°	11347.4	7593.7	278.9	152.7	110.7	81.9	68.6	59.8	55.3	46.5	44.3
60°	11794.4	7367.9	216.9	128.4	95.2	70.8	59.8	53.1	46.5	39.8	37.6
62.5°	12031.3	7053.6	166.0	101.8	77.5	62.0	53.1	46.5	39.8	33.2	31.0
65°	11710.3	6495.9	130.6	79.7	59.8	53.1	44.3	37.6	31.0	24.3	22.1
67.5°	10287.2	5477.8	101.8	64.2	46.5	39.8	37.6	31.0	22.1	17.7	15.5
70°	7270.5	3751.5	79.7	48.7	35.4	31.0	28.8	24.3	17.7	13.3	11.1
72.5°	3990.5	1892.3	57.5	35.4	26.6	24.3	22.1	19.9	15.5	11.1	11.1
75°	1536.0	520.1	42.1	24.3	17.7	17.7	15.5	15.5	13.3	8.9	8.9
77.5°	400.6	154.9	26.6	15.5	11.1	11.1	11.1	8.9	8.9	6.6	6.6
80°	128.4	50.9	15.5	11.1	8.9	6.6	6.6	4.4	6.6	4.4	4.4
82.5°	42.1	17.7	8.9	8.9	6.6	4.4	4.4	2.2	2.2	0.0	0.0
85°	15.5	8.9	6.6	4.4	4.4	4.4	2.2	0.0	0.0	0.0	0.0
87.5°	8.9	4.4	4.4	4.4	4.4	2.2	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)