

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: P633794

Luminaire Tested: GWS-SA2F-740-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-740-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9525.7 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

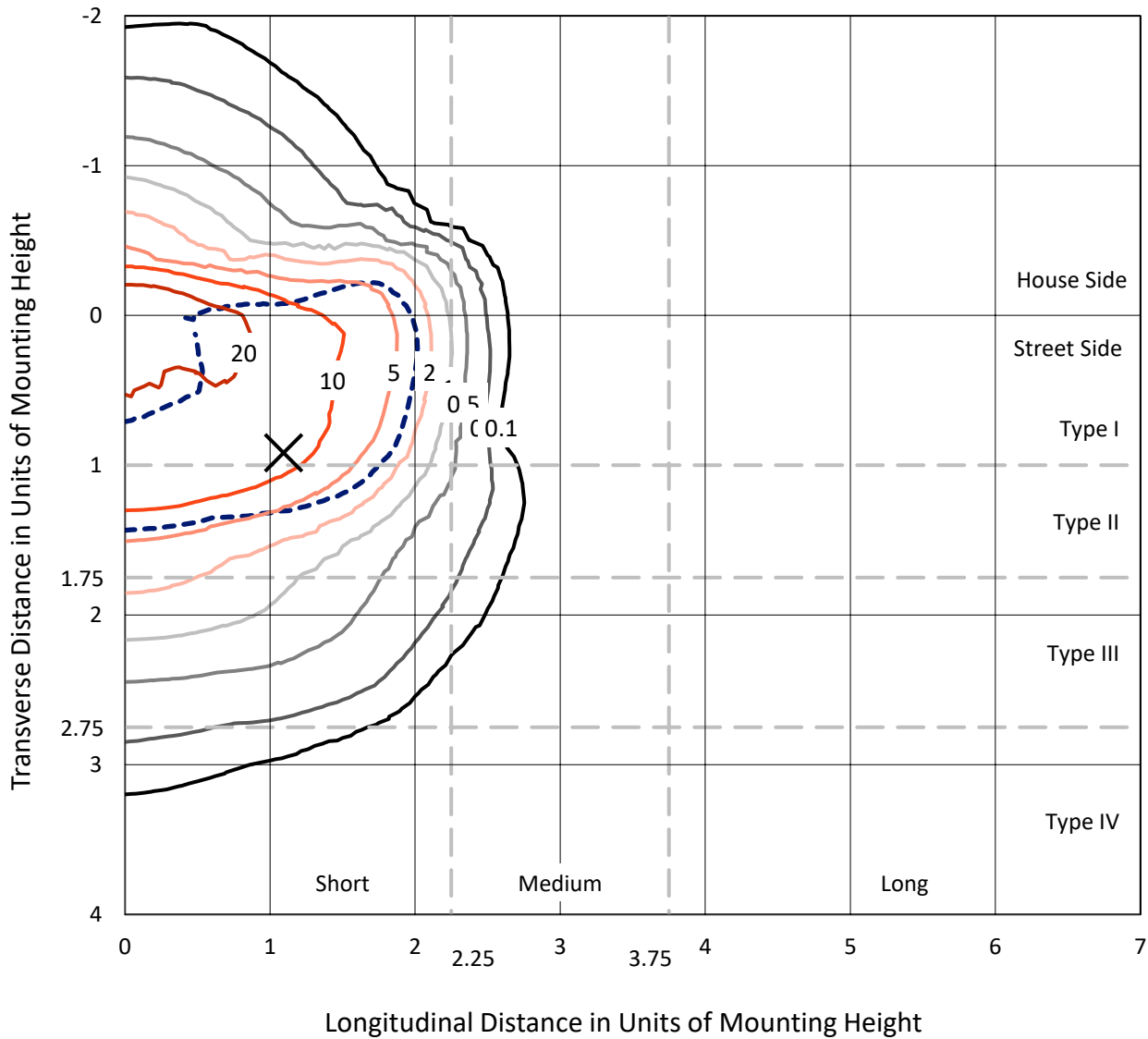
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

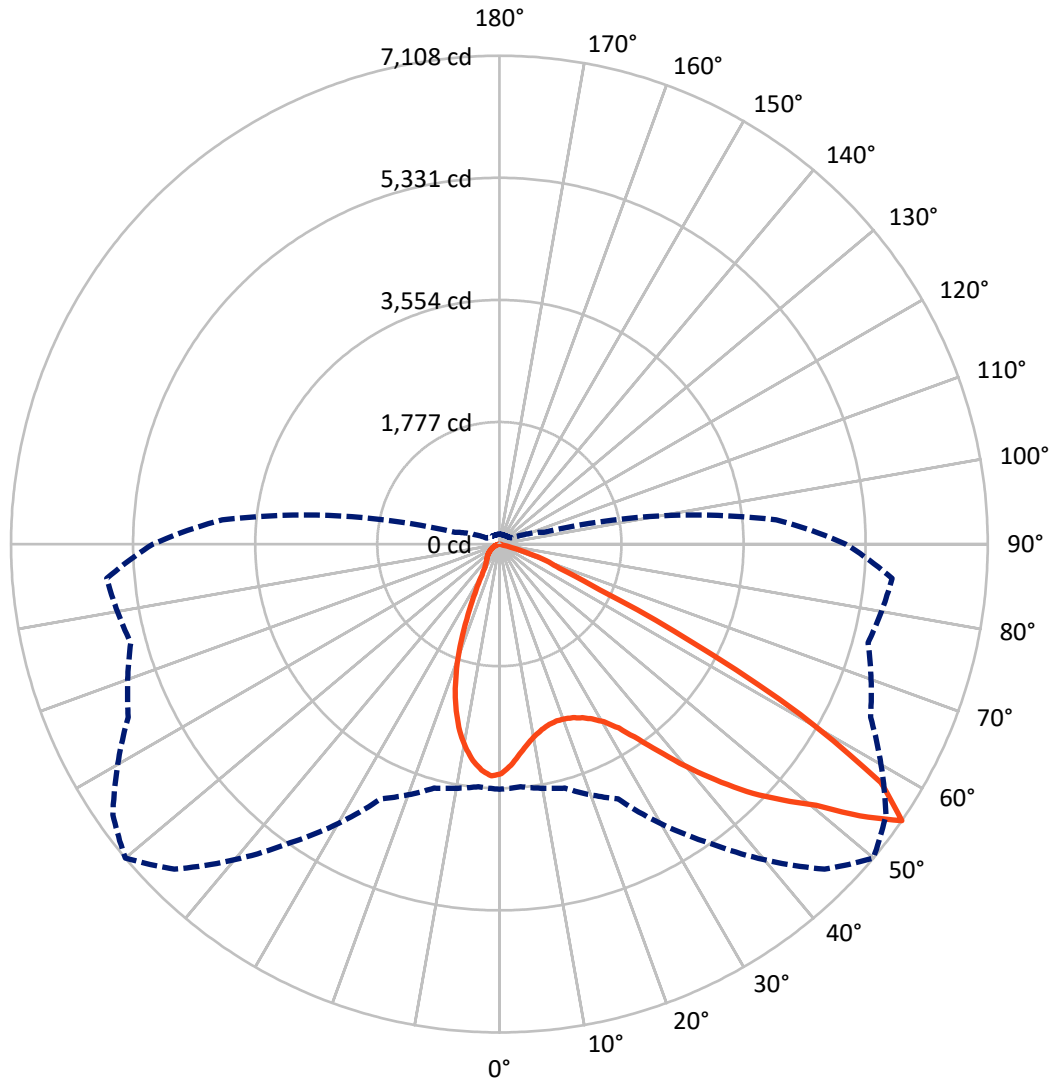
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 33.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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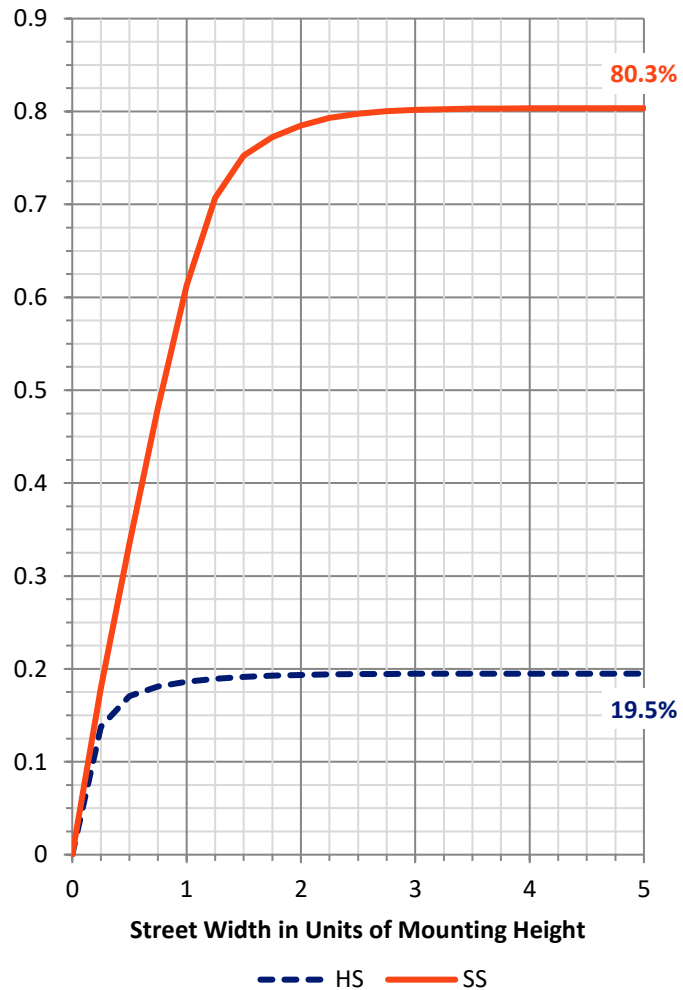
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1877.0	0.0	1877.0
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	7648.7	0.0	7648.7
	% Fixture	80.3	0.0	80.3
Total	Lumens	9525.7	0.0	9525.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.5	3.1
10°-20°	722.3	7.6
20°-30°	1018.8	10.7
30°-40°	1507.6	15.8
40°-50°	2175.0	22.8
50°-60°	2565.6	26.9
60°-70°	1144.5	12.0
70°-80°	98.4	1.0
80°-90°	0.0	0.0
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°	9525.7	100.0
0°-180°	9525.7	100.0

Coefficient of Utilization



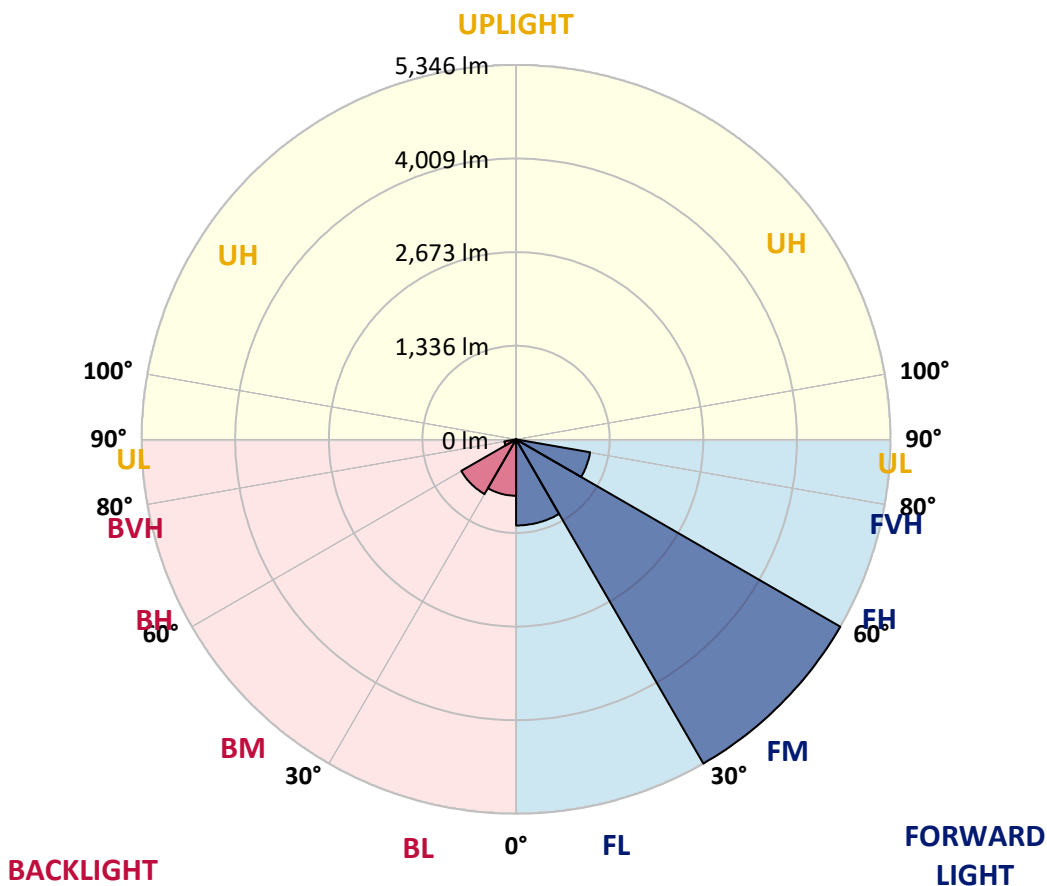
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1229.8	12.9			
FM (30°-60°)	5345.5	56.1			
FH (60°-80°)	1073.4	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	804.8	8.4	B2/1000		
BM (30°-60°)	902.7	9.5	B1/1000		
BH (60°-80°)	169.5	1.8	B1/500		G1/500
BVH (80°-90°)	0.0	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-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1
2.5°	3104.9	3107.2	3108.4	3139.8	3151.4	3197.9	3222.4	3235.2	3268.9	3308.4	3341.0
5°	2896.8	2893.3	2899.1	2938.6	2964.2	3032.8	3070.0	3095.6	3170.0	3263.1	3341.0
7.5°	2715.3	2722.3	2729.3	2772.3	2810.7	2885.1	2938.6	2977.0	3080.5	3218.9	3350.3
10°	2587.4	2587.4	2597.9	2646.7	2692.1	2784.0	2837.5	2886.3	3009.6	3179.3	3360.8
12.5°	2493.2	2494.4	2507.2	2563.0	2615.3	2710.7	2766.5	2814.2	2950.3	3139.8	3363.1
15°	2449.0	2445.6	2456.0	2515.3	2573.5	2663.0	2721.2	2767.7	2908.4	3117.7	3374.7
17.5°	2437.4	2435.1	2443.2	2501.4	2560.7	2647.9	2704.9	2751.4	2902.6	3124.7	3409.6
20°	2471.1	2466.5	2463.0	2513.0	2568.8	2654.9	2714.2	2766.5	2930.5	3163.1	3463.1
22.5°	2551.4	2551.4	2543.2	2567.7	2604.9	2682.8	2744.4	2813.0	3003.7	3239.8	3542.2
25°	2699.1	2687.4	2672.3	2682.8	2678.1	2727.0	2800.2	2895.6	3142.1	3366.6	3638.7
27.5°	2867.7	2878.2	2852.6	2853.7	2813.0	2795.6	2880.5	3024.7	3348.0	3545.7	3781.7
30°	3096.8	3088.6	3089.8	3086.3	2992.1	2909.6	3001.4	3193.3	3607.3	3818.9	3967.8
32.5°	3275.9	3287.5	3325.9	3348.0	3224.7	3092.1	3189.8	3422.4	3902.7	4130.6	4195.7
35°	3465.4	3486.3	3564.3	3636.4	3532.9	3380.5	3485.2	3725.9	4180.6	4438.8	4457.4
37.5°	3665.4	3707.3	3800.3	3927.1	3910.8	3775.9	3871.3	4082.9	4399.2	4624.8	4673.7
40°	3894.5	3935.2	4087.6	4270.1	4308.5	4278.3	4309.7	4432.9	4543.4	4633.0	4766.7
42.5°	4145.7	4201.5	4394.6	4638.8	4783.0	4809.7	4736.5	4723.7	4606.2	4539.9	4746.9
45°	4442.2	4507.4	4726.0	5042.3	5271.4	5307.4	5180.7	5016.7	4645.7	4471.3	4687.6
47.5°	4774.8	4836.5	5053.9	5434.2	5774.9	5788.9	5567.9	5303.9	4763.2	4550.4	4733.0
50°	4886.5	4924.8	5113.2	5559.8	6187.7	6294.7	5974.9	5627.2	4999.3	4783.0	4953.9
52.5°	4502.7	4517.8	4681.8	5133.0	6104.0	6791.3	6569.2	6109.8	5419.1	5137.6	5294.6
55°	3567.7	3543.3	3675.9	4089.9	5305.1	6690.1	7107.6	6868.0	5959.8	5554.0	5737.7
57.5°	2495.6	2466.5	2436.3	2716.5	3958.5	5671.4	6549.4	6973.8	6475.0	5966.8	6215.6
60°	2051.3	2023.4	1876.9	1747.8	2393.2	4072.4	5030.7	5829.6	6433.1	5945.9	6200.5
62.5°	1772.2	1756.0	1696.7	1521.1	1408.3	2324.6	3150.3	3915.4	4936.5	4669.0	4683.0
65°	1392.0	1387.3	1428.0	1446.6	1245.5	1286.2	1607.1	2035.1	2668.8	2516.5	2386.2
67.5°	951.2	940.8	1017.5	1251.3	1197.8	1015.2	940.8	948.9	1154.7	705.9	560.5
70°	604.7	580.3	581.4	775.6	974.5	801.2	725.6	638.4	574.5	104.7	118.6
72.5°	387.2	372.1	319.8	350.0	451.2	390.7	394.2	339.6	226.8	55.8	65.1
75°	162.8	150.0	115.1	91.9	90.7	57.0	50.0	46.5	31.4	31.4	33.7
77.5°	1.2	0.0	0.0	1.2	2.3	1.2	1.2	2.3	4.7	7.0	8.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1	3342.1
2.5°	3360.8	3332.8	3364.2	3375.9	3374.7	3375.9	3342.1	3318.9	3317.7	3288.7	3274.7
5°	3373.5	3351.4	3374.7	3359.6	3323.5	3278.2	3217.7	3165.4	3142.1	3108.4	3092.1
7.5°	3398.0	3374.7	3371.2	3310.7	3221.2	3125.8	3018.9	2923.5	2872.3	2810.7	2814.2
10°	3415.4	3388.7	3343.3	3220.0	3071.2	2918.9	2759.5	2617.7	2528.1	2445.6	2431.6
12.5°	3422.4	3382.8	3277.0	3091.0	2881.6	2682.8	2449.0	2246.7	2107.2	1999.0	1983.9
15°	3435.2	3371.2	3192.1	2935.1	2647.9	2366.5	2068.8	1792.0	1607.1	1482.7	1493.2
17.5°	3454.9	3358.4	3096.8	2760.7	2396.7	1999.0	1596.6	1279.2	1109.4	1037.3	1038.5
20°	3482.9	3343.3	2992.1	2568.8	2095.5	1583.9	1116.4	876.8	829.1	826.8	823.3
22.5°	3520.1	3328.2	2880.5	2358.3	1738.5	1109.4	743.1	668.7	688.4	726.8	733.8
25°	3564.3	3309.6	2756.0	2121.1	1349.0	728.0	557.0	545.4	593.1	644.2	655.9
27.5°	3632.9	3300.3	2614.2	1851.3	946.6	522.1	455.9	462.8	505.9	548.9	559.3
30°	3749.2	3317.7	2459.5	1549.0	608.2	416.3	395.4	405.8	429.1	451.2	460.5
32.5°	3907.3	3368.9	2309.5	1218.7	433.8	361.7	357.0	362.8	372.1	384.9	388.4
35°	4092.2	3457.3	2154.8	872.2	358.2	330.3	325.6	325.6	330.3	332.6	333.7
37.5°	4244.5	3550.3	2009.5	580.3	321.0	305.8	298.9	295.4	294.2	296.5	297.7
40°	4310.8	3588.7	1851.3	422.1	294.2	283.7	273.3	262.8	262.8	271.0	272.1
42.5°	4264.3	3545.7	1668.7	348.9	275.6	260.5	244.2	234.9	239.6	247.7	250.0
45°	4165.5	3439.8	1467.6	308.2	257.0	237.2	218.6	212.8	217.5	227.9	230.3
47.5°	4149.2	3370.1	1226.8	281.4	237.2	217.5	197.7	191.9	197.7	205.8	208.2
50°	4310.8	3430.5	959.4	258.2	218.6	196.5	180.2	174.4	177.9	182.6	184.9
52.5°	4606.2	3655.0	774.5	236.1	196.5	175.6	165.1	158.2	158.2	162.8	164.0
55°	5042.3	4046.9	668.7	210.5	170.9	159.3	150.0	143.0	143.0	145.4	146.5
57.5°	5544.7	4521.3	693.1	176.8	150.0	144.2	136.1	130.2	132.6	132.6	132.6
60°	5474.9	4486.4	741.9	148.8	132.6	130.2	123.3	120.9	126.8	122.1	119.8
62.5°	4032.9	3099.1	388.4	122.1	114.0	111.6	107.0	111.6	119.8	107.0	102.3
65°	1958.3	1500.1	155.8	100.0	96.5	94.2	91.9	98.8	103.5	83.7	79.1
67.5°	460.5	374.5	101.2	84.9	80.2	75.6	77.9	79.1	75.6	57.0	54.7
70°	119.8	117.5	79.1	70.9	64.0	59.3	59.3	58.1	50.0	36.0	33.7
72.5°	65.1	64.0	57.0	53.5	44.2	39.5	40.7	36.0	27.9	20.9	19.8
75°	32.6	34.9	32.6	30.2	24.4	22.1	22.1	19.8	14.0	8.1	8.1
77.5°	7.0	8.1	8.1	7.0	5.8	4.7	4.7	5.8	2.3	0.0	0.0
80°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)