

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: P637479

Luminaire Tested: GWS-SA4C-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637479
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-SA4C-830-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9054.7 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

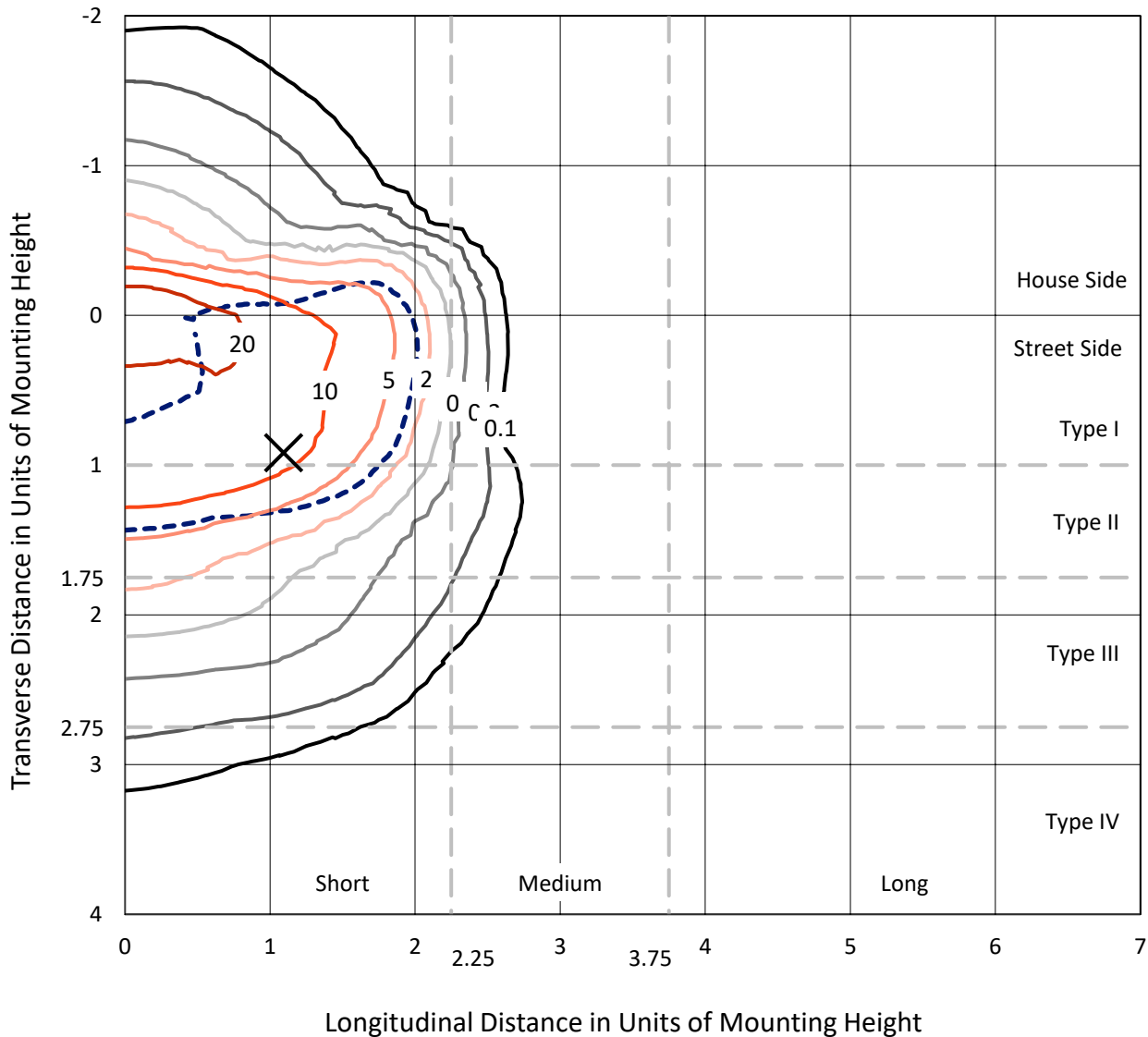
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

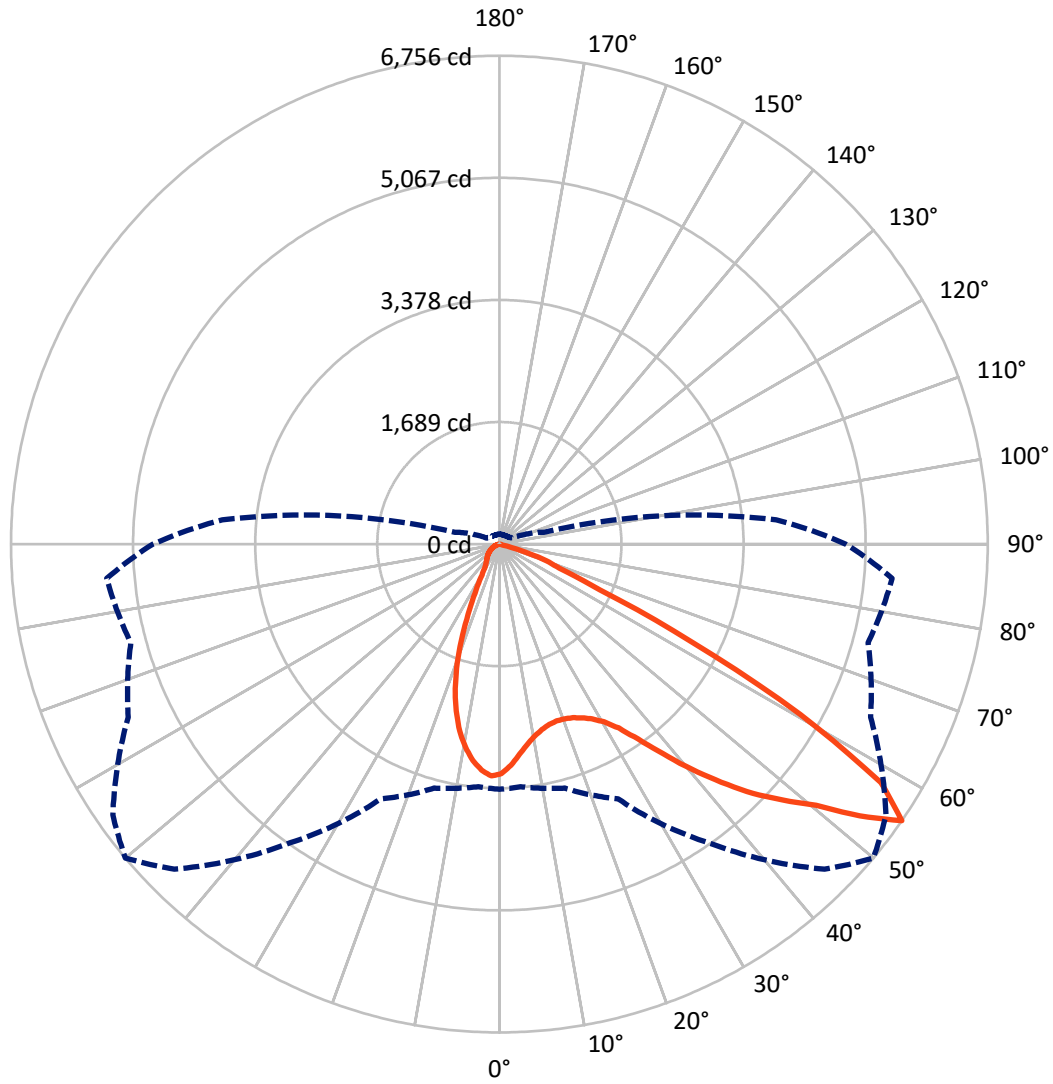
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 31.8 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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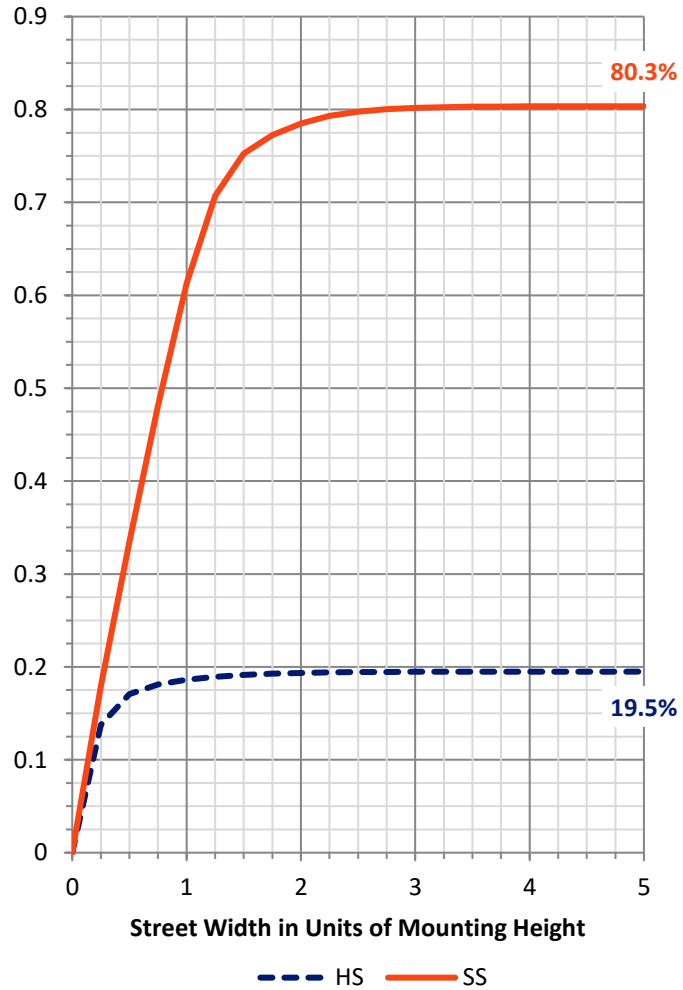
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1784.2	0.0	1784.2
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	7270.5	0.0	7270.5
	% Fixture	80.3	0.0	80.3
Total	Lumens	9054.7	0.0	9054.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.0	3.1
10°-20°	686.6	7.6
20°-30°	968.4	10.7
30°-40°	1433.1	15.8
40°-50°	2067.5	22.8
50°-60°	2438.7	26.9
60°-70°	1087.9	12.0
70°-80°	93.5	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°	9054.7	100.0
0°-180°	9054.7	100.0

Coefficient of Utilization



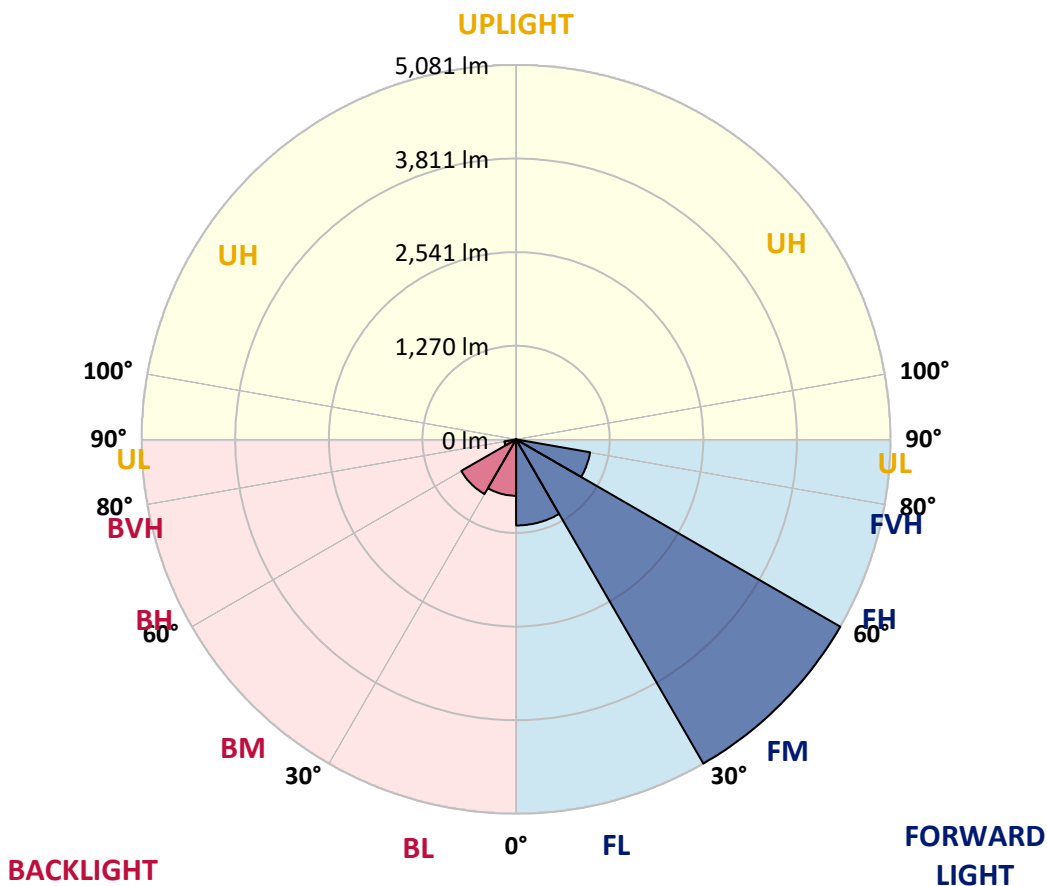
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1169.0	12.9			
FM (30°-60°)	5081.2	56.1			
FH (60°-80°)	1020.3	11.3			G1/1800
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	765.0	8.4	B2/1000		
BM (30°-60°)	858.1	9.5	B1/1000		
BH (60°-80°)	161.1	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°	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9
2.5°	2951.4	2953.6	2954.7	2984.6	2995.6	3039.8	3063.0	3075.2	3107.3	3144.8	3175.8
5°	2753.5	2750.2	2755.7	2793.3	2817.6	2882.9	2918.2	2942.5	3013.3	3101.7	3175.8
7.5°	2581.1	2587.7	2594.4	2635.3	2671.7	2742.5	2793.3	2829.8	2928.2	3059.7	3184.6
10°	2459.5	2459.5	2469.4	2515.9	2559.0	2646.3	2697.2	2743.6	2860.8	3022.1	3194.6
12.5°	2370.0	2371.1	2383.2	2436.3	2486.0	2576.7	2629.7	2675.0	2804.4	2984.6	3196.8
15°	2328.0	2324.6	2334.6	2391.0	2446.2	2531.3	2586.6	2630.8	2764.6	2963.6	3207.8
17.5°	2316.9	2314.7	2322.4	2377.7	2434.1	2517.0	2571.1	2615.4	2759.1	2970.2	3241.0
20°	2349.0	2344.5	2341.2	2388.7	2441.8	2523.6	2580.0	2629.7	2785.6	3006.7	3291.9
22.5°	2425.2	2425.2	2417.5	2440.7	2476.1	2550.1	2608.7	2673.9	2855.2	3079.6	3367.0
25°	2565.6	2554.6	2540.2	2550.1	2545.7	2592.1	2661.8	2752.4	2986.8	3200.1	3458.8
27.5°	2725.9	2735.8	2711.5	2712.6	2673.9	2657.4	2738.1	2875.1	3182.4	3370.3	3594.7
30°	2943.7	2935.9	2937.0	2933.7	2844.2	2765.7	2853.0	3035.4	3428.9	3630.1	3771.6
32.5°	3113.9	3124.9	3161.4	3182.4	3065.2	2939.2	3032.1	3253.2	3709.7	3926.3	3988.2
35°	3294.1	3314.0	3388.0	3456.6	3358.2	3213.4	3312.9	3541.7	3973.9	4219.3	4237.0
37.5°	3484.2	3524.0	3612.4	3732.9	3717.4	3589.2	3679.8	3881.0	4181.7	4396.1	4442.6
40°	3702.0	3740.6	3885.4	4059.0	4095.5	4066.7	4096.6	4213.7	4318.8	4403.9	4531.0
42.5°	3940.7	3993.8	4177.3	4409.4	4546.5	4571.9	4502.3	4490.1	4378.5	4315.4	4512.2
45°	4222.6	4284.5	4492.3	4793.0	5010.7	5045.0	4924.5	4768.7	4416.0	4250.2	4455.8
47.5°	4538.7	4597.3	4804.0	5165.5	5489.4	5502.6	5292.6	5041.7	4527.7	4325.4	4498.9
50°	4644.9	4681.3	4860.4	5284.9	5881.8	5983.5	5679.5	5349.0	4752.1	4546.5	4709.0
52.5°	4280.1	4294.4	4450.3	4879.2	5802.2	6455.5	6244.4	5807.7	5151.1	4883.6	5032.8
55°	3391.3	3368.1	3494.1	3887.7	5042.8	6359.3	6756.1	6528.4	5665.1	5279.3	5454.0
57.5°	2372.2	2344.5	2315.8	2582.2	3762.7	5391.0	6225.6	6629.0	6154.8	5671.8	5908.3
60°	1949.9	1923.4	1784.1	1661.4	2274.9	3871.1	4781.9	5541.3	6115.0	5651.9	5893.9
62.5°	1684.6	1669.1	1612.8	1445.9	1338.6	2209.7	2994.5	3721.8	4692.4	4438.1	4451.4
65°	1323.2	1318.7	1357.4	1375.1	1183.9	1222.6	1527.6	1934.4	2536.9	2392.1	2268.3
67.5°	904.2	894.3	967.2	1189.4	1138.6	965.0	894.3	902.0	1097.7	671.0	532.8
70°	574.8	551.6	552.7	737.3	926.3	761.6	689.8	606.9	546.1	99.5	112.7
72.5°	368.1	353.7	304.0	332.7	428.9	371.4	374.7	322.8	215.6	53.1	61.9
75°	154.8	142.6	109.4	87.3	86.2	54.2	47.5	44.2	29.8	29.8	32.1
77.5°	1.1	0.0	0.0	1.1	2.2	1.1	1.1	2.2	4.4	6.6	7.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
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°	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9	3176.9
2.5°	3194.6	3168.0	3197.9	3208.9	3207.8	3208.9	3176.9	3154.8	3153.7	3126.0	3112.8
5°	3206.7	3185.7	3207.8	3193.5	3159.2	3116.1	3058.6	3008.9	2986.8	2954.7	2939.2
7.5°	3230.0	3207.8	3204.5	3147.0	3061.9	2971.3	2869.6	2779.0	2730.3	2671.7	2675.0
10°	3246.5	3221.1	3178.0	3060.8	2919.3	2774.5	2623.1	2488.2	2403.1	2324.6	2311.4
12.5°	3253.2	3215.6	3115.0	2938.1	2739.2	2550.1	2328.0	2135.6	2003.0	1900.2	1885.8
15°	3265.3	3204.5	3034.3	2790.0	2517.0	2249.5	1966.5	1703.4	1527.6	1409.4	1419.3
17.5°	3284.1	3192.4	2943.7	2624.2	2278.2	1900.2	1517.7	1215.9	1054.5	986.0	987.1
20°	3310.6	3178.0	2844.2	2441.8	1991.9	1505.5	1061.2	833.5	788.1	785.9	782.6
22.5°	3346.0	3163.6	2738.1	2241.7	1652.6	1054.5	706.3	635.6	654.4	690.9	697.5
25°	3388.0	3145.9	2619.8	2016.2	1282.3	692.0	529.5	518.4	563.7	612.4	623.4
27.5°	3453.2	3137.1	2484.9	1759.8	899.8	496.3	433.3	439.9	480.8	521.7	531.7
30°	3563.8	3153.7	2337.9	1472.4	578.1	395.7	375.8	385.8	407.9	428.9	437.7
32.5°	3714.1	3202.3	2195.3	1158.4	412.3	343.8	339.4	344.9	353.7	365.9	369.2
35°	3889.9	3286.3	2048.3	829.0	340.5	313.9	309.5	309.5	313.9	316.1	317.2
37.5°	4034.7	3374.8	1910.1	551.6	305.1	290.7	284.1	280.8	279.7	281.9	283.0
40°	4097.7	3411.2	1759.8	401.3	279.7	269.7	259.8	249.8	249.8	257.6	258.7
42.5°	4053.5	3370.3	1586.2	331.6	262.0	247.6	232.1	223.3	227.7	235.4	237.7
45°	3959.5	3269.7	1395.0	292.9	244.3	225.5	207.8	202.3	206.7	216.7	218.9
47.5°	3944.0	3203.4	1166.2	267.5	225.5	206.7	187.9	182.4	187.9	195.7	197.9
50°	4097.7	3260.9	911.9	245.4	207.8	186.8	171.3	165.8	169.1	173.5	175.8
52.5°	4378.5	3474.2	736.2	224.4	186.8	166.9	157.0	150.3	150.3	154.8	155.9
55°	4793.0	3846.8	635.6	200.1	162.5	151.4	142.6	136.0	136.0	138.2	139.3
57.5°	5270.5	4297.8	658.8	168.0	142.6	137.1	129.3	123.8	126.0	126.0	126.0
60°	5204.2	4264.6	705.2	141.5	126.0	123.8	117.2	115.0	120.5	116.1	113.9
62.5°	3833.5	2945.9	369.2	116.1	108.3	106.1	101.7	106.1	113.9	101.7	97.3
65°	1861.5	1426.0	148.1	95.1	91.7	89.5	87.3	94.0	98.4	79.6	75.2
67.5°	437.7	355.9	96.2	80.7	76.3	71.9	74.1	75.2	71.9	54.2	52.0
70°	113.9	111.6	75.2	67.4	60.8	56.4	56.4	55.3	47.5	34.3	32.1
72.5°	61.9	60.8	54.2	50.8	42.0	37.6	38.7	34.3	26.5	19.9	18.8
75°	31.0	33.2	31.0	28.7	23.2	21.0	21.0	18.8	13.3	7.7	7.7
77.5°	6.6	7.7	7.7	6.6	5.5	4.4	4.4	5.5	2.2	0.0	0.0
80°	1.1	1.1	1.1	1.1	1.1	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)