

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: P634997

Luminaire Tested: GWS-SA3C-830-U-AFL-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P634997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3C-830-U-AFL-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8345.8 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

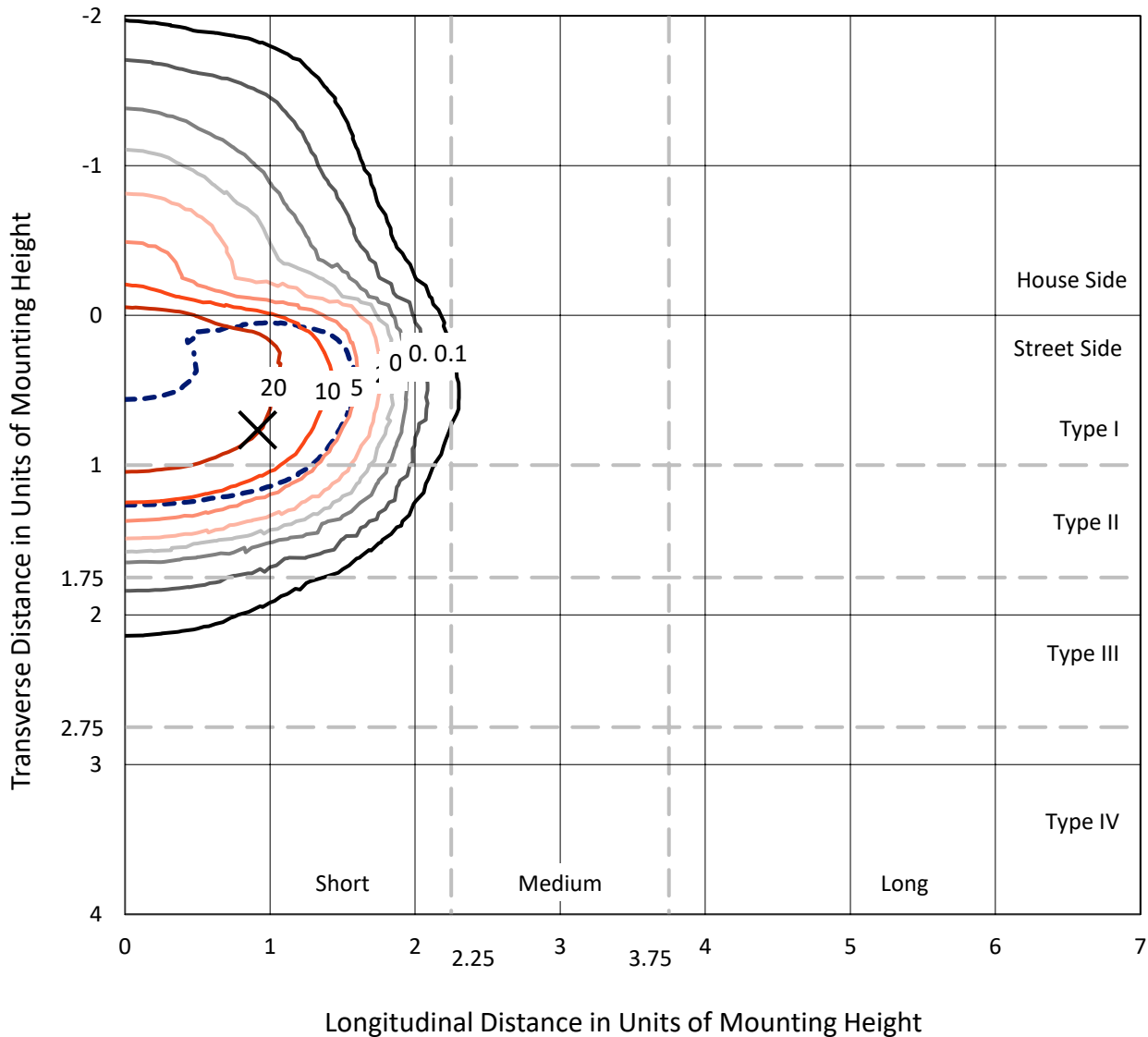
Input Watts (W): 93
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

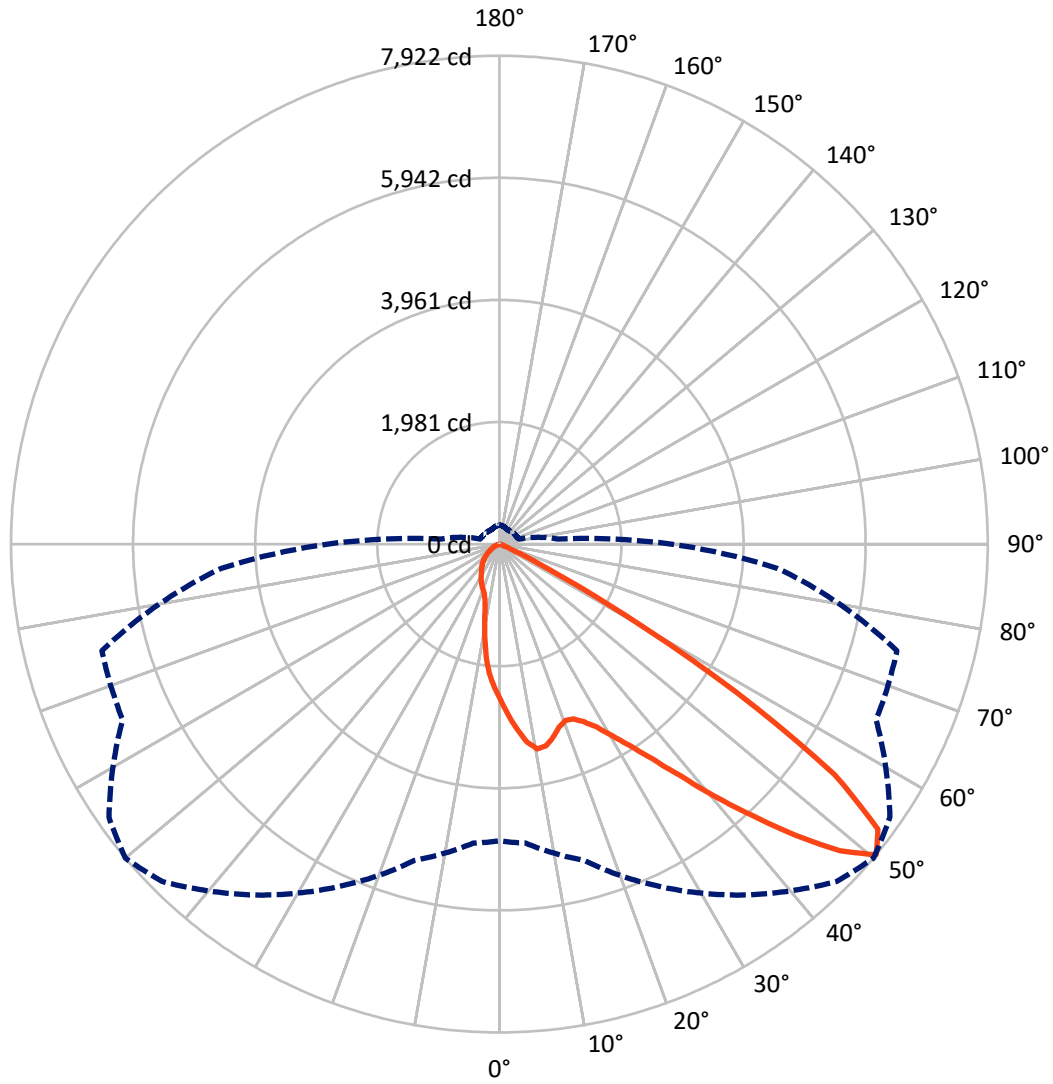
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 32.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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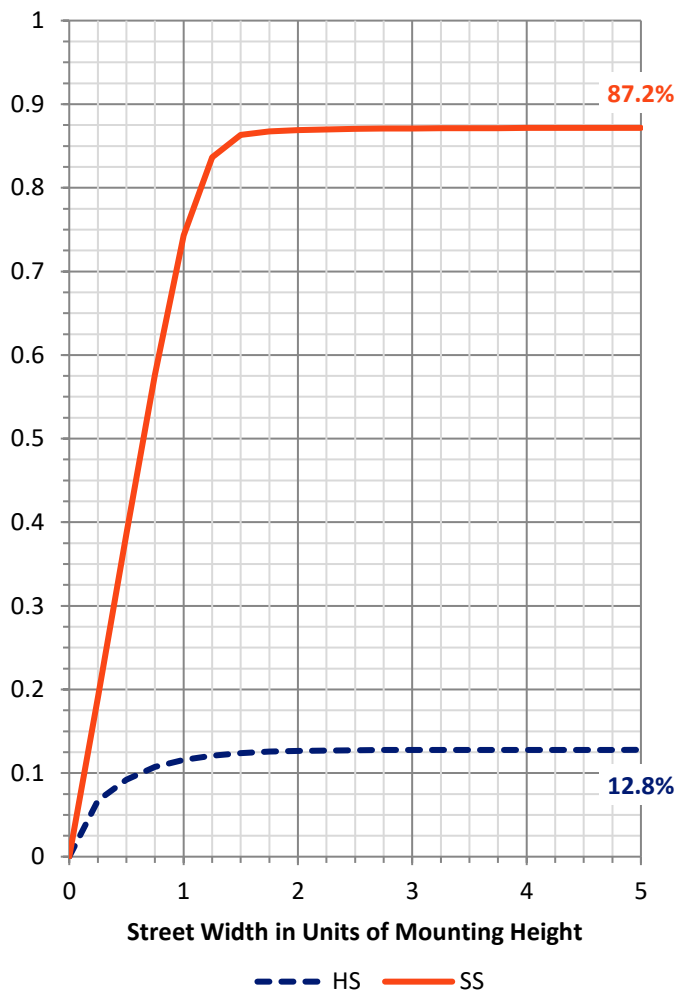
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1072.3	0.0	1072.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	7273.5	0.0	7273.5
	% Fixture	87.2	0.0	87.2
Total	Lumens	8345.8	0.0	8345.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.5	2.8
10°-20°	605.2	7.3
20°-30°	998.7	12.0
30°-40°	1648.1	19.7
40°-50°	2607.7	31.2
50°-60°	1974.3	23.7
60°-70°	247.1	3.0
70°-80°	28.0	0.3
80°-90°	2.2	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°	8345.8	100.0
0°-180°	8345.8	100.0

Coefficient of Utilization



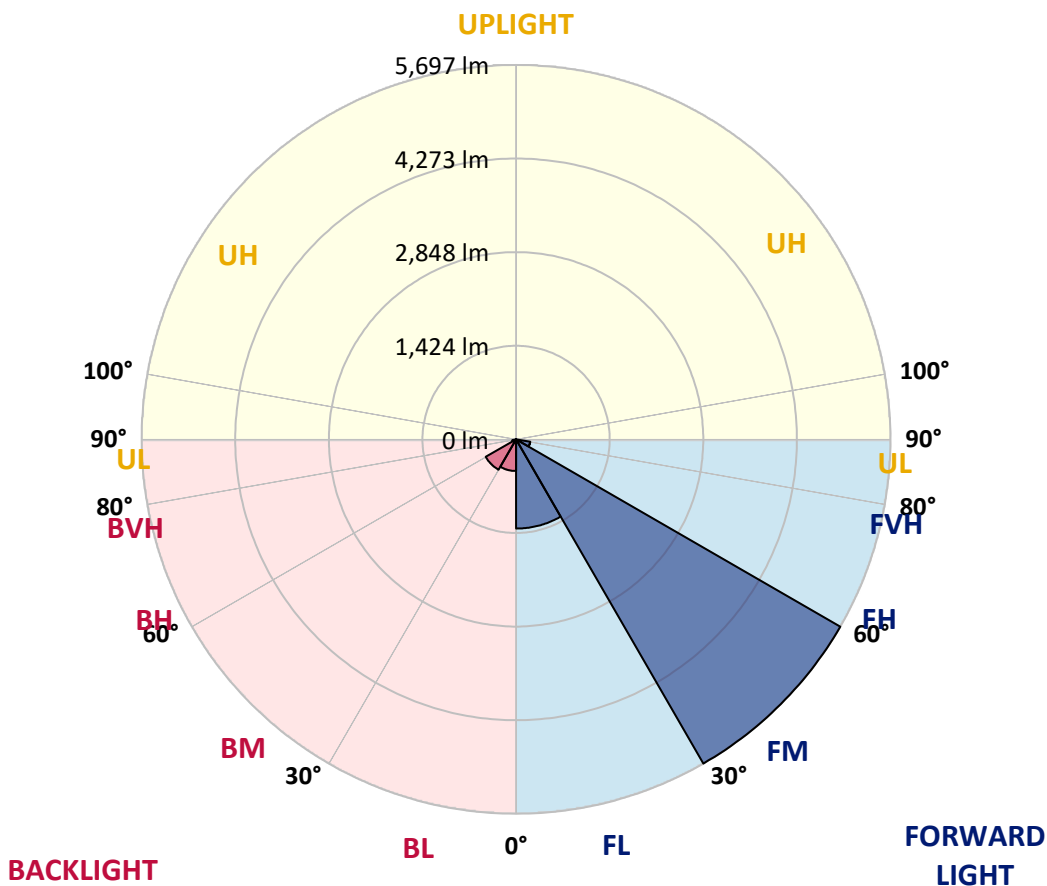
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1357.1	16.3			
FM (30°-60°)	5696.9	68.3			
FH (60°-80°)	218.5	2.6			G0/660
FVH (80°-90°)	1.0	0.0			G0/10
BL (0°-30°)	481.3	5.8	B1/500		
BM (30°-60°)	533.3	6.4	B1/1000		
BH (60°-80°)	56.6	0.7	B0/110		G0/110
BVH (80°-90°)	1.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4
2.5°	2881.1	2904.2	2897.8	2867.6	2835.1	2812.0	2776.3	2765.2	2684.1	2627.7	2568.2
5°	3229.1	3236.2	3228.3	3191.7	3134.5	3079.7	3020.9	2986.8	2851.0	2728.6	2603.9
7.5°	3312.5	3303.7	3318.8	3337.1	3329.2	3305.3	3243.4	3206.0	3044.0	2844.6	2655.5
10°	3051.9	3032.1	3088.5	3183.0	3282.3	3394.3	3378.4	3381.6	3232.2	2990.8	2723.1
12.5°	2706.4	2698.4	2740.5	2850.2	3044.8	3299.0	3360.1	3462.6	3404.6	3148.8	2800.1
15°	2554.7	2558.6	2584.1	2653.2	2793.0	3109.1	3256.1	3441.2	3558.7	3302.2	2885.1
17.5°	2577.7	2592.0	2591.2	2614.2	2699.2	2952.6	3124.2	3373.6	3677.9	3478.5	2982.8
20°	2734.2	2748.5	2727.0	2709.6	2738.2	2912.9	3055.1	3305.3	3758.1	3656.4	3086.1
22.5°	2968.5	2985.2	2934.4	2884.3	2866.0	2978.1	3081.3	3277.5	3819.3	3819.3	3178.2
25°	3252.1	3275.1	3196.5	3107.5	3056.7	3115.5	3193.3	3340.3	3882.0	3965.4	3241.0
27.5°	3569.1	3569.9	3502.3	3402.2	3306.9	3314.1	3360.9	3481.7	3951.1	4122.7	3290.2
30°	3925.7	3928.1	3838.3	3718.4	3598.4	3565.9	3605.6	3696.9	4094.9	4320.5	3358.6
32.5°	4386.5	4397.6	4268.9	4092.5	3936.8	3875.7	3898.7	3994.8	4323.7	4568.4	3461.0
35°	5009.2	5021.1	4831.3	4598.5	4350.7	4258.6	4281.6	4378.5	4654.9	4920.3	3624.7
37.5°	5624.1	5640.0	5447.7	5230.9	4890.9	4738.4	4762.2	4854.3	5152.2	5406.4	3886.8
40°	6049.0	6070.5	6010.9	5864.8	5549.4	5349.2	5377.8	5411.2	5699.5	5987.9	4226.8
42.5°	6273.1	6303.2	6328.7	6403.3	6237.3	6069.7	6021.2	6023.6	6256.4	6580.5	4580.3
45°	6286.6	6316.0	6446.2	6734.6	6860.9	6825.9	6737.8	6678.2	6681.4	6975.3	4801.1
47.5°	5849.7	5904.5	6148.3	6713.1	7188.2	7478.1	7433.6	7292.2	6860.1	7001.5	4777.3
50°	4814.6	4868.6	5311.9	6124.5	6949.8	7738.6	7922.1	7732.3	6743.3	6675.0	4531.8
52.5°	3496.8	3502.3	3789.9	4739.1	5983.9	7258.1	7690.2	7671.9	6565.4	6279.4	4196.6
55°	1661.0	1641.1	1964.5	2674.6	4138.6	5870.3	6598.7	6805.3	6312.8	5993.4	3936.8
57.5°	483.8	493.3	637.1	1043.8	2070.1	3751.8	4519.1	4903.6	5181.6	4927.4	3053.5
60°	216.9	217.7	242.3	317.7	689.5	1745.2	2336.2	2812.0	3098.0	2870.8	1514.8
62.5°	157.3	158.1	167.6	179.5	234.3	591.0	876.2	1167.7	1189.2	778.5	383.7
65°	131.1	131.1	132.7	132.7	140.6	211.3	266.1	343.2	289.1	214.5	150.1
67.5°	105.6	106.4	108.0	108.0	105.6	105.6	114.4	125.5	134.2	166.0	138.2
70°	82.6	81.8	81.8	82.6	80.2	68.3	73.9	84.2	92.1	129.5	119.9
72.5°	64.3	65.1	64.3	61.2	55.6	40.5	43.7	54.8	58.8	81.0	81.0
75°	48.5	49.3	46.1	35.0	23.0	12.7	16.7	27.0	34.2	39.7	29.4
77.5°	6.4	6.4	4.8	4.8	4.0	4.8	4.8	6.4	9.5	9.5	7.1
80°	0.8	0.8	0.8	1.6	2.4	3.2	3.2	3.2	3.2	4.0	4.0
82.5°	0.8	0.8	0.8	0.8	2.4	2.4	3.2	3.2	3.2	3.2	3.2
85°	0.0	0.0	0.0	0.8	1.6	2.4	2.4	3.2	3.2	3.2	3.2
87.5°	0.0	0.0	0.0	0.8	1.6	2.4	2.4	2.4	3.2	3.2	3.2
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°	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4	2528.4
2.5°	2532.4	2486.3	2430.7	2392.6	2338.6	2302.8	2252.0	2217.9	2188.5	2165.4	2178.1
5°	2533.2	2460.1	2346.5	2249.6	2144.0	2047.1	1943.0	1861.2	1787.3	1753.9	1772.2
7.5°	2549.1	2444.2	2270.3	2097.9	1895.3	1695.2	1507.7	1355.2	1279.7	1244.0	1255.1
10°	2580.1	2437.1	2185.3	1899.3	1570.4	1297.2	1115.3	1012.0	969.9	947.7	951.6
12.5°	2608.7	2432.3	2074.9	1638.0	1239.2	1006.5	911.9	897.6	906.4	907.2	906.4
15°	2647.6	2423.6	1938.2	1369.5	991.4	869.8	872.2	892.9	913.5	919.9	918.3
17.5°	2688.9	2410.1	1761.9	1112.1	841.2	830.1	857.9	885.7	906.4	909.5	910.3
20°	2731.8	2382.3	1560.9	908.0	771.3	799.9	830.9	851.6	866.6	871.4	873.0
22.5°	2751.7	2323.5	1329.0	761.8	724.5	762.6	785.6	812.6	817.4	799.9	803.1
25°	2741.3	2224.2	1102.6	663.3	677.6	715.7	749.9	736.4	716.5	703.8	707.8
27.5°	2708.8	2092.3	880.9	591.0	627.5	676.0	680.0	664.9	661.7	651.4	654.6
30°	2673.8	1940.6	708.6	533.0	576.7	627.5	615.6	621.2	622.0	610.1	614.0
32.5°	2652.4	1781.7	564.0	494.1	544.1	553.7	577.5	588.6	589.4	561.6	566.4
35°	2659.5	1625.3	477.4	462.3	514.0	511.6	544.9	551.3	505.2	467.1	471.1
37.5°	2717.5	1480.7	428.2	437.7	461.5	479.8	505.2	463.1	452.8	435.3	437.7
40°	2825.5	1357.6	398.8	422.6	425.8	455.2	416.2	421.8	422.6	411.5	413.9
42.5°	2951.8	1255.1	381.3	413.9	405.9	410.7	371.8	382.9	394.8	390.0	390.8
45°	3015.4	1155.0	366.2	383.7	386.1	340.8	332.0	344.0	359.1	361.4	362.2
47.5°	2959.0	1059.7	350.3	340.0	355.9	310.6	300.3	304.2	321.7	331.2	332.8
50°	2786.6	950.1	326.5	301.1	292.3	278.8	269.3	270.1	289.9	306.6	309.8
52.5°	2544.3	835.7	287.6	255.0	235.1	245.5	247.8	243.1	261.3	278.0	281.2
55°	2309.2	692.7	228.0	207.3	189.1	211.3	217.7	211.3	216.9	228.0	228.8
57.5°	1626.1	391.6	174.8	171.6	156.5	181.1	191.4	181.9	172.4	179.5	181.1
60°	753.8	204.9	134.2	134.2	130.3	155.7	173.2	159.7	141.4	144.6	147.0
62.5°	235.9	129.5	98.5	92.9	106.4	132.7	147.0	133.5	112.0	112.0	115.2
65°	133.5	111.2	77.8	71.5	86.6	106.4	115.2	100.9	81.8	80.2	80.2
67.5°	123.9	105.6	69.1	58.0	61.2	68.3	71.5	62.0	56.4	55.6	56.4
70°	102.5	88.2	55.6	39.7	37.3	36.5	38.1	35.7	34.2	35.0	37.3
72.5°	63.5	53.2	35.0	23.8	20.7	19.9	19.9	19.9	19.1	19.1	19.1
75°	23.0	19.9	15.9	11.9	10.3	9.5	9.5	10.3	9.5	8.7	7.9
77.5°	7.1	6.4	6.4	6.4	5.6	4.8	4.0	4.0	3.2	2.4	2.4
80°	4.0	4.0	4.0	4.0	3.2	3.2	2.4	1.6	0.8	0.8	0.0
82.5°	4.0	4.0	4.0	3.2	3.2	3.2	2.4	1.6	0.8	0.0	0.0
85°	3.2	3.2	3.2	3.2	3.2	3.2	2.4	1.6	0.8	0.0	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	2.4	1.6	0.8	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)