

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: P632607

Luminaire Tested: GWS-SA2D-722-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632607  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-722-U-T2R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

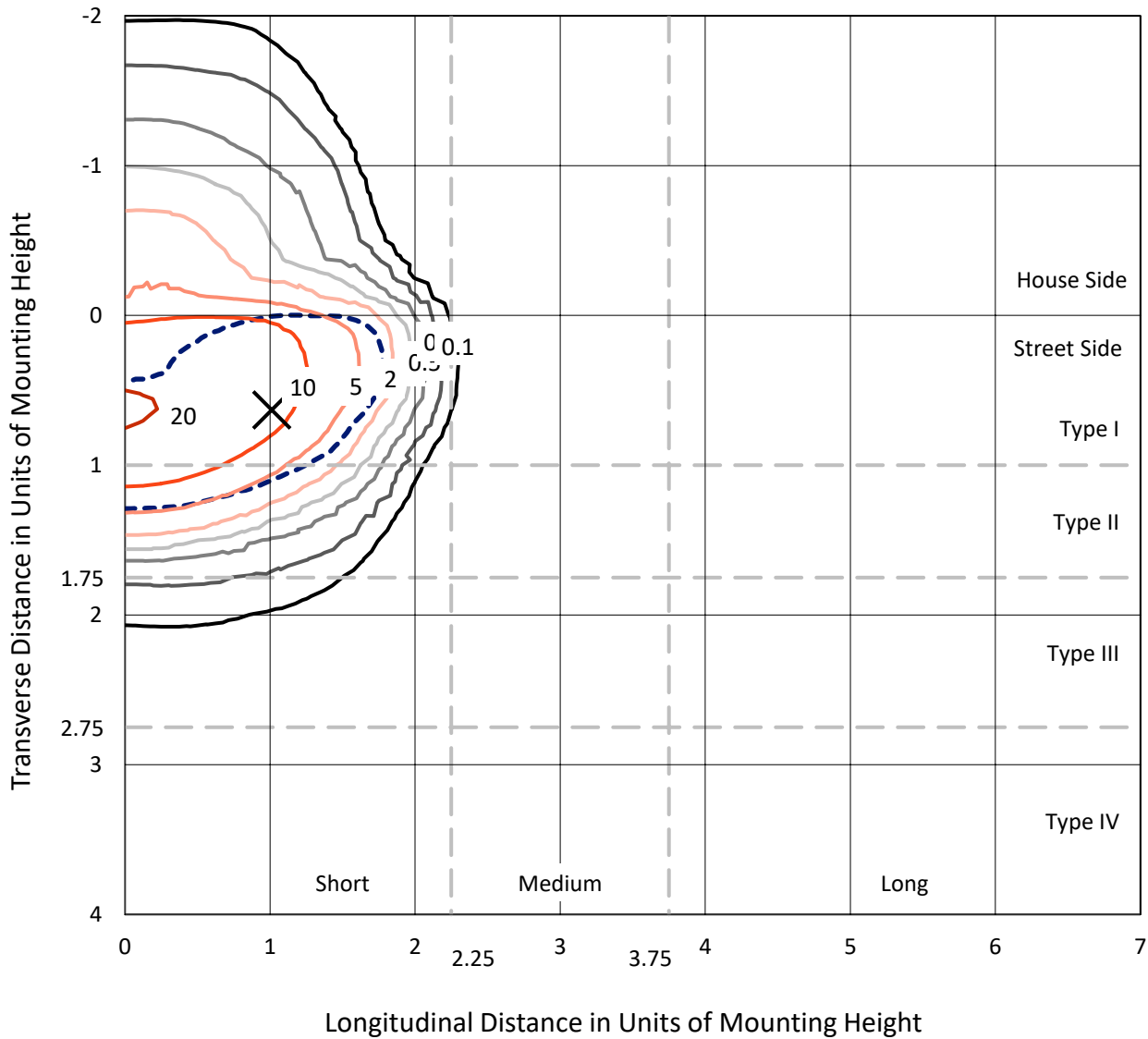
Lumens per Lamp: N/A  
Luminaire Lumens: 5765.4 lumens  
Efficiency: N/A  
Efficacy: 70.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

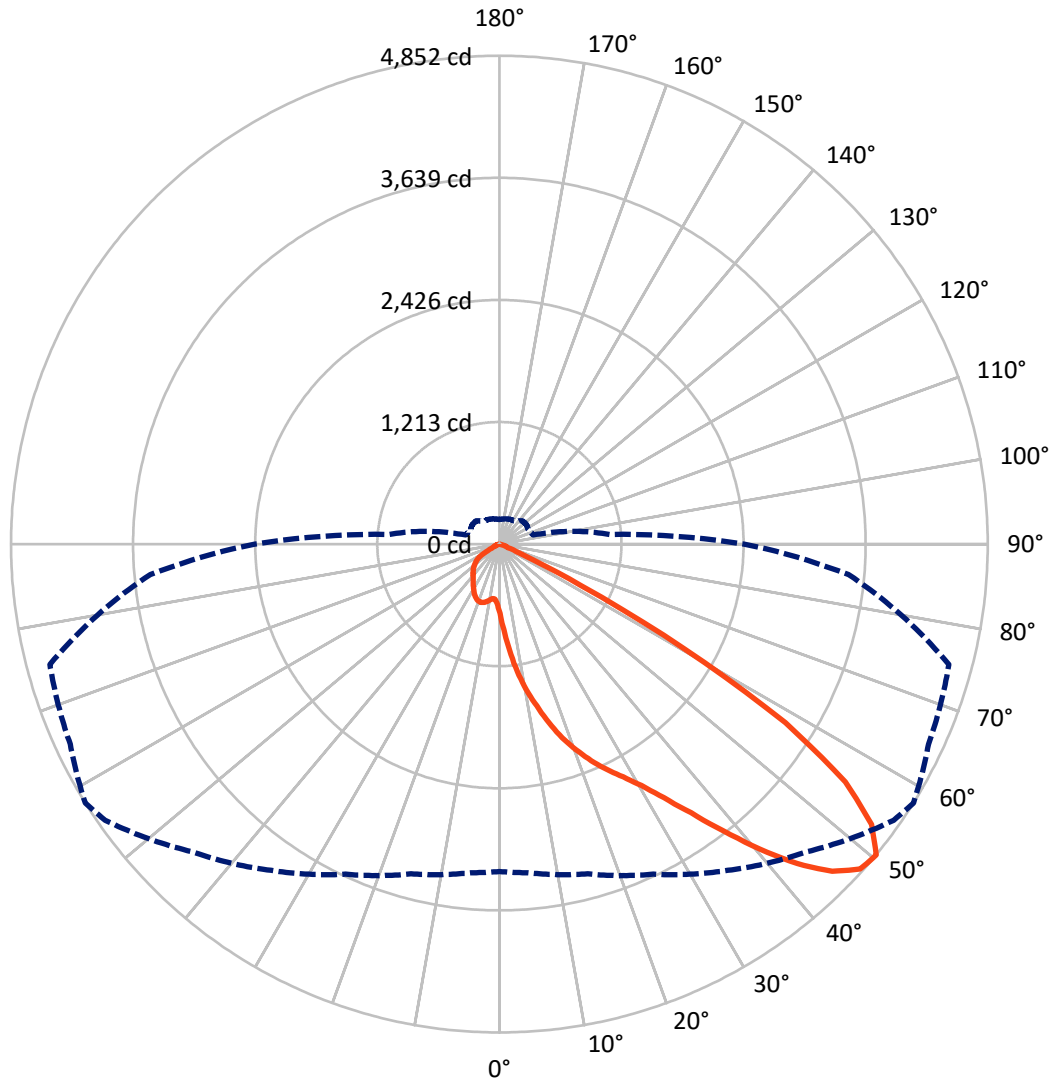
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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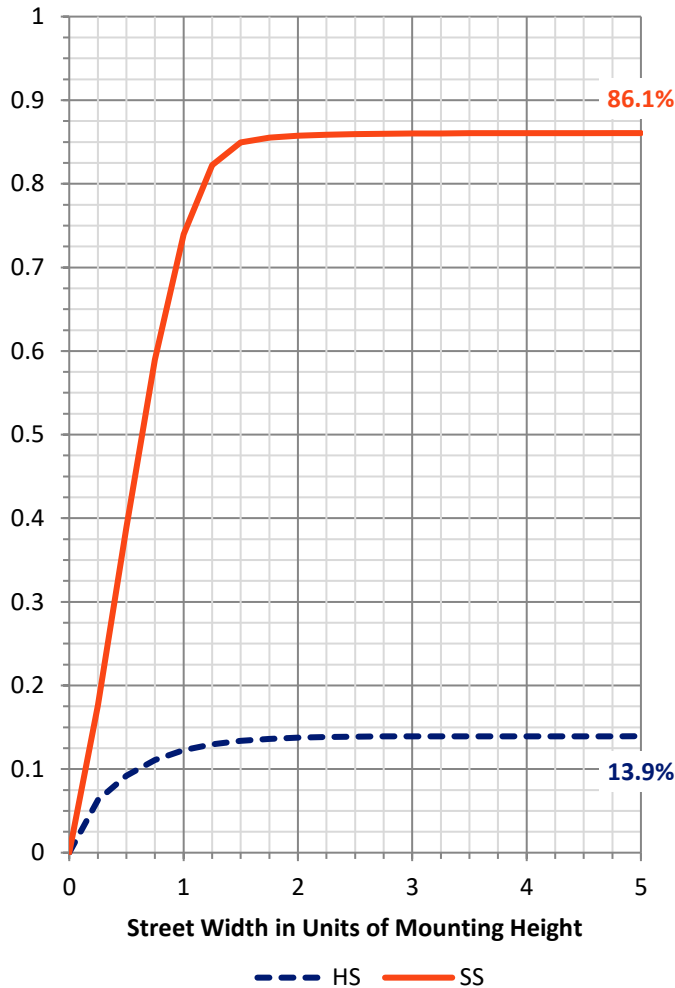
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	807.5	0.0	807.5
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	4957.9	0.0	4957.9
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	5765.4	0.0	5765.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.3	1.5
10°-20°	337.7	5.9
20°-30°	683.4	11.9
30°-40°	1209.1	21.0
40°-50°	1762.5	30.6
50°-60°	1412.7	24.5
60°-70°	254.5	4.4
70°-80°	20.1	0.3
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°	5765.4	100.0
0°-180°	5765.4	100.0

**Coefficient of Utilization**



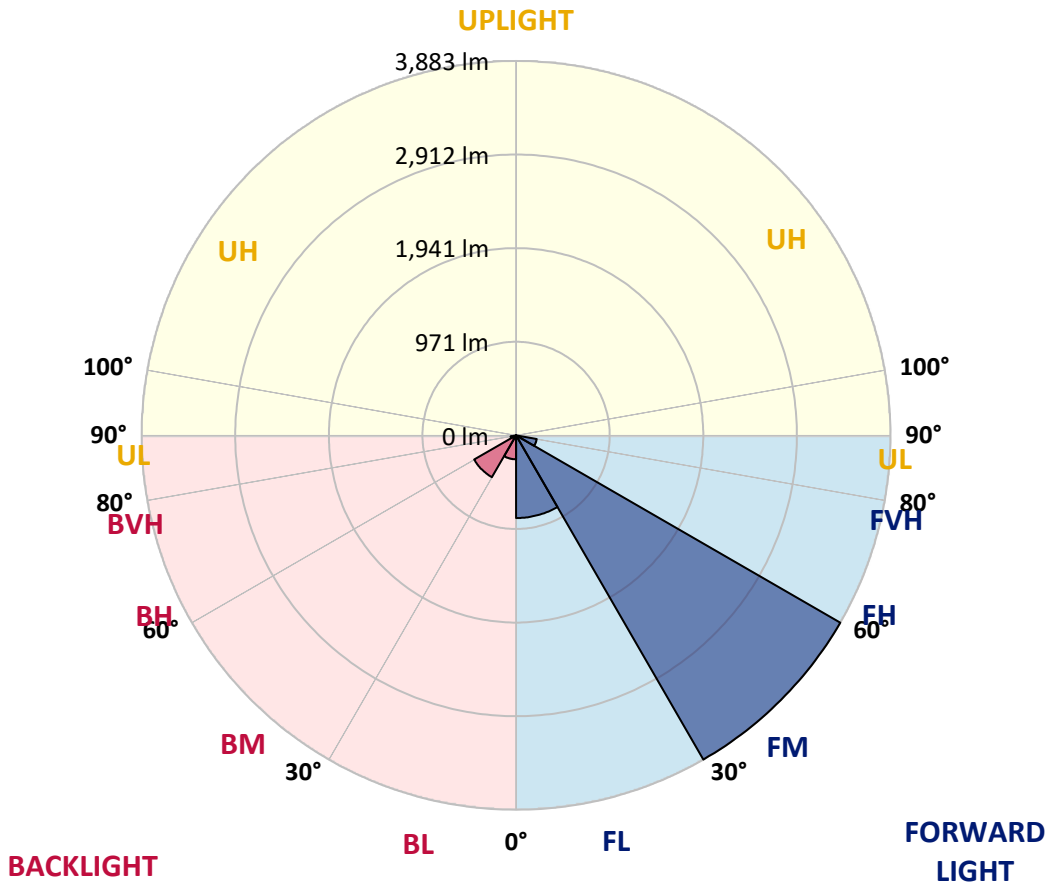
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	857.9	14.9			
FM (30°-60°)	3882.8	67.3			
FH (60°-80°)	217.2	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	248.6	4.3	B1/500		
BM (30°-60°)	501.5	8.7	B1/1000		
BH (60°-80°)	57.4	1.0	B0/110		G0/110
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: B1-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7
2.5°	1019.1	1003.1	993.9	986.5	953.8	902.0	868.1	850.2	820.6	770.7	727.5
5°	1329.9	1318.1	1296.6	1281.8	1239.8	1166.5	1090.6	1060.4	993.2	880.4	779.3
7.5°	1535.8	1527.2	1519.1	1499.4	1459.9	1393.4	1309.5	1278.1	1174.5	1014.2	848.3
10°	1694.2	1687.5	1678.2	1677.6	1646.8	1587.0	1505.0	1472.3	1360.1	1159.7	929.7
12.5°	1833.6	1828.0	1826.2	1843.4	1823.7	1779.3	1690.5	1649.8	1530.9	1308.3	1019.7
15°	1929.1	1927.9	1935.9	1969.8	1980.9	1960.6	1886.0	1842.2	1705.3	1457.5	1119.0
17.5°	1972.9	1976.6	1992.0	2050.6	2099.9	2117.2	2059.8	2022.8	1878.6	1608.5	1225.1
20°	2047.5	2046.3	2055.5	2111.0	2171.4	2233.1	2215.8	2184.4	2053.7	1768.2	1342.8
22.5°	2257.7	2239.9	2220.1	2228.8	2250.3	2322.5	2354.5	2338.5	2234.3	1932.2	1464.3
25°	2580.8	2562.3	2498.8	2437.2	2396.5	2429.1	2472.9	2480.9	2413.7	2100.5	1591.3
27.5°	2923.6	2907.0	2835.4	2743.0	2626.4	2569.7	2602.4	2618.4	2590.1	2300.9	1726.3
30°	3244.8	3222.6	3144.3	3029.6	2894.6	2807.7	2770.7	2781.8	2798.4	2538.3	1884.7
32.5°	3523.5	3506.8	3413.1	3292.3	3162.2	3071.6	2985.3	3003.7	3044.4	2828.7	2087.6
35°	3759.6	3751.0	3651.7	3531.5	3394.0	3347.8	3273.8	3277.5	3318.2	3179.5	2334.8
37.5°	3964.9	3950.1	3860.1	3748.5	3639.4	3632.0	3611.6	3613.5	3634.5	3588.2	2619.0
40°	4094.4	4080.8	4016.7	3947.7	3870.0	3871.2	3976.6	3984.7	3960.6	3989.6	2919.3
42.5°	4143.1	4133.2	4098.7	4099.3	4091.3	4127.7	4325.6	4340.4	4254.1	4304.6	3175.8
45°	4058.6	4054.3	4056.8	4145.6	4241.7	4354.0	4611.0	4636.9	4514.9	4513.6	3376.1
47.5°	3786.1	3777.5	3849.6	4000.7	4223.2	4441.5	4783.7	4823.8	4697.4	4633.2	3501.9
50°	3252.2	3276.9	3390.9	3617.8	3956.3	4321.3	4781.8	4851.5	4704.1	4622.8	3480.9
52.5°	2355.8	2350.8	2600.5	2912.5	3324.3	3936.6	4527.8	4629.5	4539.5	4519.8	3434.1
55°	1281.8	1326.8	1495.1	1908.2	2422.4	3208.4	3947.7	4169.6	4273.8	4482.2	3518.6
57.5°	471.0	490.8	596.2	888.4	1282.4	1995.1	3015.5	3350.2	3672.1	4377.4	3504.4
60°	189.9	193.6	235.5	326.8	538.8	1015.4	1808.9	2106.1	2409.4	3350.9	2689.3
62.5°	138.1	143.0	159.7	191.1	272.5	443.9	779.9	906.9	991.4	1659.7	1324.9
65°	111.6	115.3	128.9	143.0	180.0	238.6	251.5	242.3	241.1	429.1	304.0
67.5°	92.5	96.2	106.0	115.9	129.5	119.0	86.3	90.6	74.0	73.4	59.8
70°	67.8	72.1	82.0	92.5	77.7	32.1	49.9	74.0	56.1	46.9	45.6
72.5°	51.2	54.3	63.5	60.4	22.8	12.3	33.3	53.6	43.2	34.5	33.9
75°	38.2	40.1	32.1	9.9	2.5	3.1	12.3	22.2	24.0	19.7	19.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.8	2.5	3.1	3.7
80°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7	688.7
2.5°	702.8	677.0	640.0	609.1	585.7	562.9	545.6	528.4	527.8	519.1	517.3
5°	732.4	685.6	617.8	569.1	539.5	521.6	509.3	503.1	500.0	496.9	495.7
7.5°	775.0	707.8	614.1	562.3	537.6	525.9	517.3	513.6	511.7	509.3	508.6
10°	827.4	739.8	627.6	575.2	553.6	542.5	533.3	527.8	524.7	520.4	519.1
12.5°	890.3	779.3	649.2	596.8	574.0	559.2	546.9	538.8	534.5	529.0	527.8
15°	958.1	821.8	673.3	616.5	589.4	570.3	554.9	542.5	534.5	527.8	525.9
17.5°	1028.4	865.0	694.8	630.1	596.8	574.0	551.8	535.2	525.3	516.7	514.2
20°	1107.3	909.4	709.0	632.6	594.3	564.1	538.2	517.3	507.4	495.7	493.2
22.5°	1189.9	950.7	715.2	627.0	580.8	545.6	517.9	496.3	482.1	469.8	466.1
25°	1270.1	987.7	712.1	611.6	560.4	519.7	491.4	469.2	453.8	441.4	438.4
27.5°	1355.1	1018.5	701.0	588.8	532.7	491.4	464.2	445.1	431.0	417.4	414.3
30°	1450.7	1046.9	683.1	561.0	500.0	462.4	441.4	428.5	413.1	398.9	394.6
32.5°	1566.0	1072.2	657.2	527.8	471.0	437.1	425.4	415.5	397.7	382.9	379.8
35°	1697.9	1093.1	624.5	493.2	442.7	421.1	418.6	405.7	382.3	365.0	361.3
37.5°	1850.8	1113.5	585.7	459.3	421.7	413.7	414.3	392.1	363.8	342.8	340.3
40°	2015.4	1133.8	542.5	429.7	402.6	409.4	403.8	372.4	326.1	305.8	303.3
42.5°	2186.8	1156.0	498.8	402.0	386.6	392.7	384.7	332.9	299.6	289.2	287.9
45°	2341.6	1182.5	451.3	374.2	370.5	368.7	355.1	301.5	287.3	279.9	279.3
47.5°	2453.2	1178.2	400.7	347.7	353.3	347.1	305.8	286.7	275.0	265.1	262.6
50°	2432.8	1103.0	348.3	318.1	331.1	325.5	275.0	269.4	258.9	248.5	244.8
52.5°	2381.0	1000.6	302.7	286.7	307.0	294.1	254.0	248.5	239.2	225.7	221.3
55°	2408.8	904.5	267.0	261.4	282.4	243.5	230.6	222.0	212.1	197.3	195.4
57.5°	2319.4	738.0	214.6	218.3	249.7	207.8	202.2	188.7	172.0	162.1	160.9
60°	1605.5	396.4	134.4	138.7	180.6	174.5	181.3	168.9	148.6	139.3	137.5
62.5°	737.4	159.1	73.4	70.3	94.9	118.4	155.4	154.1	128.9	114.1	112.8
65°	178.8	72.8	52.4	49.3	53.6	70.9	101.1	121.5	104.2	86.9	85.1
67.5°	58.0	59.2	48.1	45.0	47.5	53.0	60.4	67.2	66.6	61.0	59.8
70°	46.2	53.6	44.4	40.7	40.7	42.5	40.7	32.7	28.4	30.8	32.1
72.5°	34.5	40.7	35.1	31.4	30.2	29.6	25.3	18.5	12.9	11.7	11.1
75°	20.3	22.8	21.6	18.5	17.3	15.4	12.3	8.0	4.3	3.1	1.8
77.5°	3.7	4.3	4.9	3.7	3.1	2.5	1.8	0.6	0.0	0.0	0.0
80°	0.0	0.6	0.6	0.6	0.0	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)