

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: P632277

Luminaire Tested: GWS-SA2C-735-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632277  
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-SA2C-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

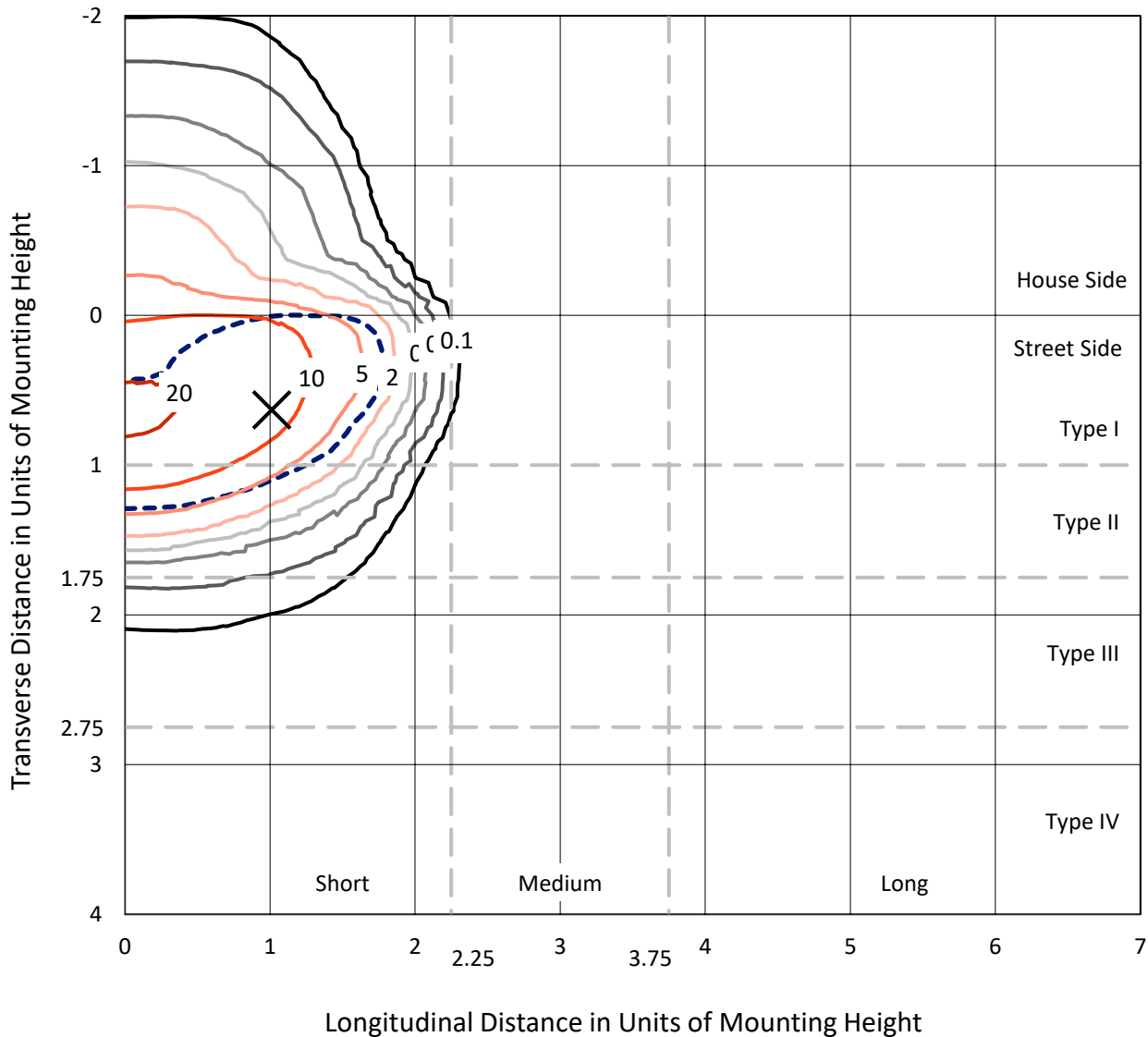
Lumens per Lamp: N/A  
Luminaire Lumens: 6119.2 lumens  
Efficiency: N/A  
Efficacy: 96.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

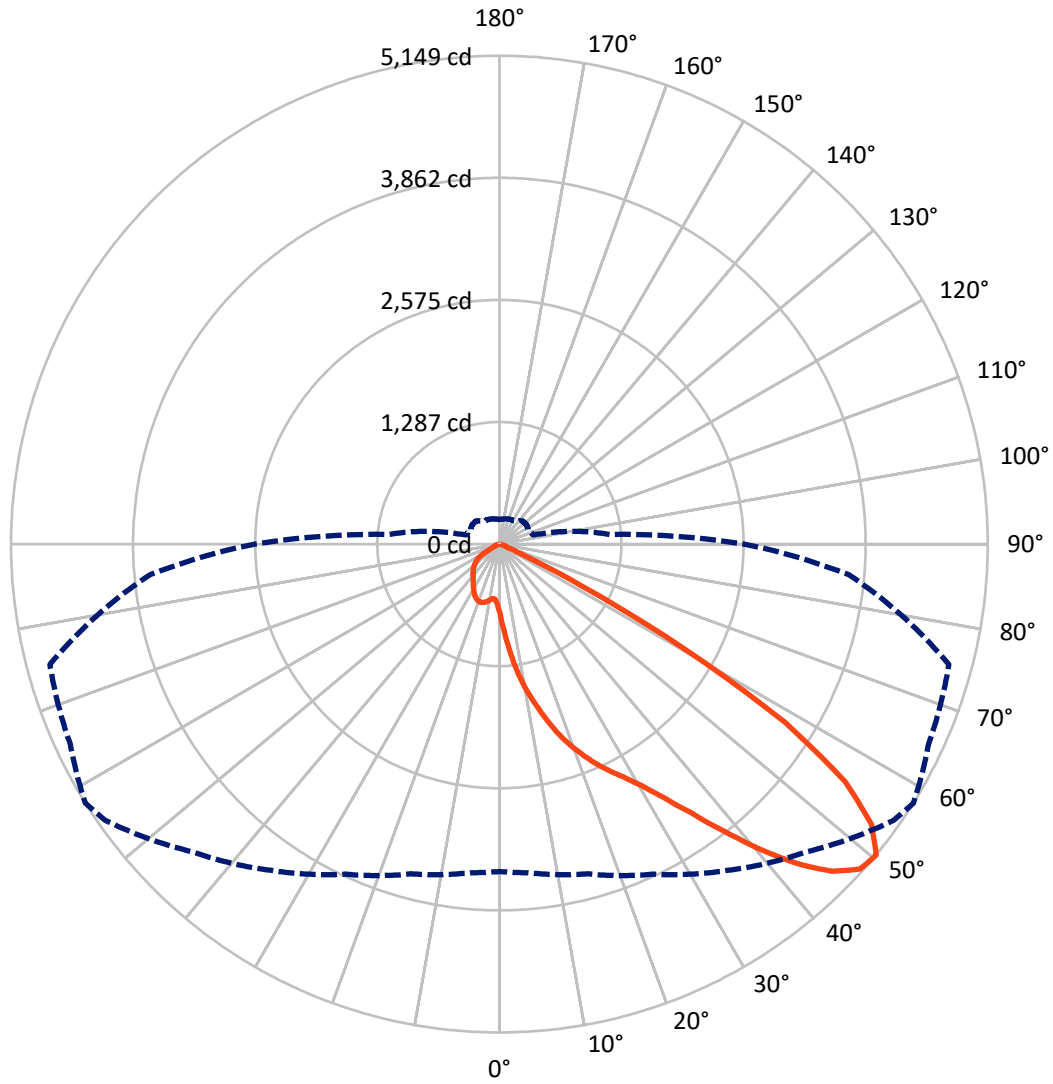
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.4 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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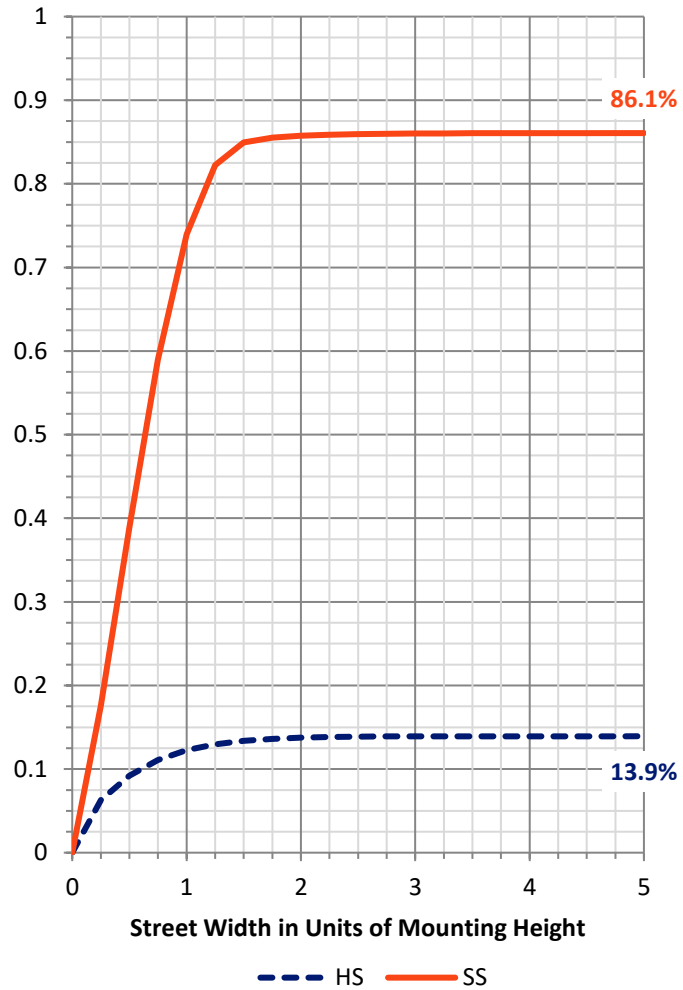
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	857.1	0.0	857.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	5262.1	0.0	5262.1
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	6119.2	0.0	6119.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	1.5
10°-20°	358.5	5.9
20°-30°	725.4	11.9
30°-40°	1283.3	21.0
40°-50°	1870.7	30.6
50°-60°	1499.4	24.5
60°-70°	270.1	4.4
70°-80°	21.3	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°	6119.2	100.0
0°-180°	6119.2	100.0

**Coefficient of Utilization**



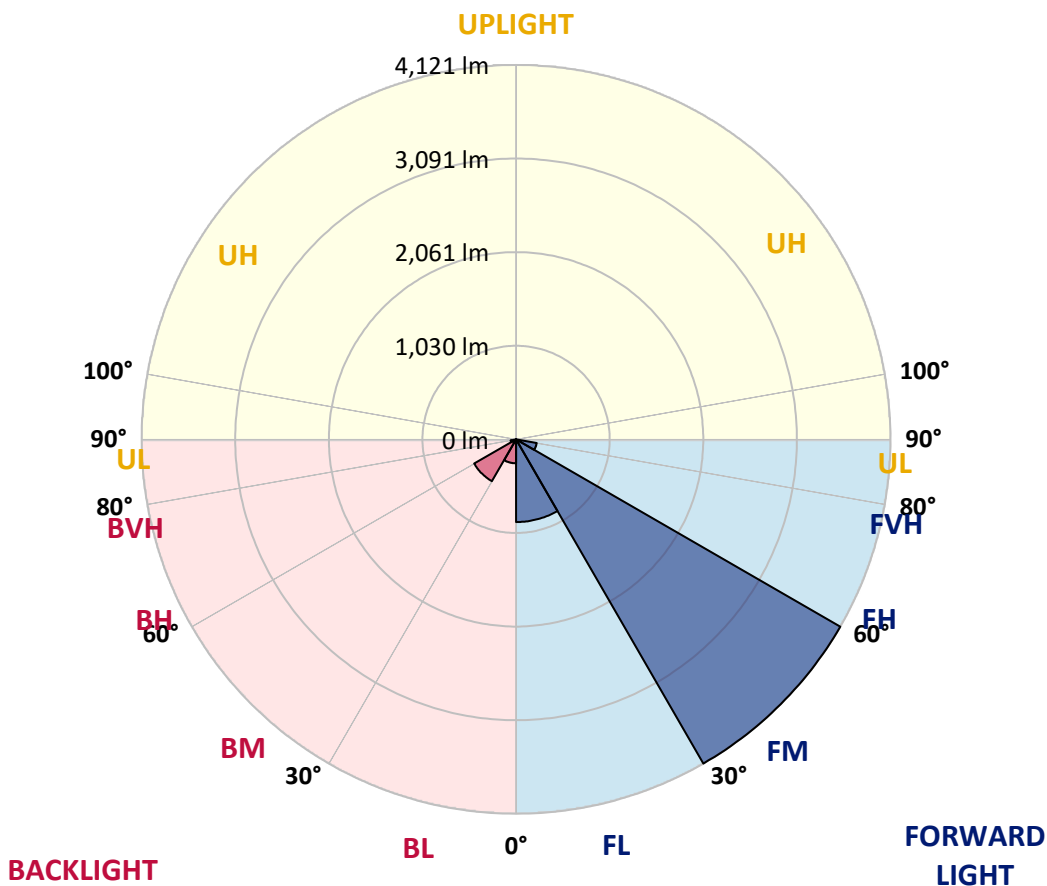
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	910.5	14.9			
FM (30°-60°)	4121.1	67.3			
FH (60°-80°)	230.5	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	263.9	4.3	B1/500		
BM (30°-60°)	532.3	8.7	B1/1000		
BH (60°-80°)	60.9	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°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	1081.7	1064.7	1054.8	1047.0	1012.3	957.3	921.3	902.4	871.0	818.0	772.2
5°	1411.5	1399.0	1376.1	1360.4	1315.9	1238.1	1157.6	1125.5	1054.2	934.4	827.1
7.5°	1630.0	1620.9	1612.4	1591.4	1549.5	1478.9	1389.9	1356.5	1246.6	1076.4	900.4
10°	1798.2	1791.0	1781.2	1780.5	1747.8	1684.3	1597.3	1562.6	1443.5	1230.9	986.8
12.5°	1946.1	1940.2	1938.2	1956.6	1935.6	1888.5	1794.3	1751.1	1624.8	1388.6	1082.3
15°	2047.5	2046.2	2054.7	2090.7	2102.5	2080.9	2001.7	1955.2	1810.0	1546.9	1187.7
17.5°	2094.0	2097.9	2114.3	2176.4	2228.8	2247.1	2186.2	2147.0	1993.9	1707.2	1300.2
20°	2173.2	2171.8	2181.7	2240.6	2304.7	2370.1	2351.8	2318.4	2179.7	1876.7	1425.2
22.5°	2396.3	2377.3	2356.4	2365.5	2388.4	2465.0	2499.0	2482.0	2371.4	2050.8	1554.1
25°	2739.2	2719.5	2652.1	2586.7	2543.5	2578.2	2624.7	2633.2	2561.8	2229.4	1688.9
27.5°	3103.0	3085.3	3009.4	2911.3	2787.6	2727.4	2762.1	2779.1	2749.0	2442.1	1832.2
30°	3443.9	3420.4	3337.3	3215.6	3072.3	2980.0	2940.7	2952.5	2970.2	2694.0	2000.4
32.5°	3739.7	3722.0	3622.6	3494.3	3356.2	3260.1	3168.4	3188.1	3231.3	3002.2	2215.7
35°	3990.3	3981.2	3875.8	3748.2	3602.3	3553.2	3474.7	3478.6	3521.8	3374.6	2478.1
37.5°	4208.2	4192.5	4097.0	3978.6	3862.7	3854.9	3833.3	3835.2	3857.5	3808.4	2779.8
40°	4345.7	4331.3	4263.2	4189.9	4107.5	4108.8	4220.7	4229.2	4203.7	4234.4	3098.4
42.5°	4397.3	4386.9	4350.2	4350.9	4342.4	4381.0	4591.0	4606.7	4515.1	4568.8	3370.6
45°	4307.7	4303.1	4305.7	4400.0	4502.0	4621.1	4894.0	4921.5	4791.9	4790.6	3583.3
47.5°	4018.5	4009.3	4085.9	4246.2	4482.4	4714.1	5077.2	5119.8	4985.6	4917.6	3716.8
50°	3451.8	3478.0	3599.0	3839.8	4199.1	4586.5	5075.3	5149.2	4992.8	4906.4	3694.6
52.5°	2500.3	2495.1	2760.1	3091.2	3528.3	4178.1	4805.7	4913.6	4818.1	4797.2	3644.8
55°	1360.4	1408.2	1586.8	2025.3	2571.0	3405.3	4189.9	4425.5	4536.1	4757.2	3734.5
57.5°	499.9	520.9	632.8	942.9	1361.1	2117.5	3200.5	3555.8	3897.4	4646.0	3719.4
60°	201.5	205.5	250.0	346.8	571.9	1077.7	1919.9	2235.3	2557.3	3556.5	2854.3
62.5°	146.6	151.8	169.5	202.9	289.2	471.1	827.8	962.6	1052.2	1761.6	1406.2
65°	118.4	122.4	136.8	151.8	191.1	253.2	267.0	257.2	255.9	455.4	322.6
67.5°	98.2	102.1	112.6	123.0	137.4	126.3	91.6	96.2	78.5	77.9	63.5
70°	72.0	76.6	87.0	98.2	82.5	34.0	53.0	78.5	59.5	49.7	48.4
72.5°	54.3	57.6	67.4	64.1	24.2	13.1	35.3	56.9	45.8	36.6	36.0
75°	40.6	42.5	34.0	10.5	2.6	3.3	13.1	23.6	25.5	20.9	20.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.0	2.6	3.3	3.9
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°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	746.0	718.5	679.2	646.5	621.6	597.4	579.1	560.8	560.1	551.0	549.0
5°	777.4	727.7	655.7	604.0	572.6	553.6	540.5	534.0	530.7	527.4	526.1
7.5°	822.5	751.2	651.7	596.8	570.6	558.2	549.0	545.1	543.1	540.5	539.9
10°	878.2	785.2	666.1	610.5	587.6	575.8	566.0	560.1	556.9	552.3	551.0
12.5°	944.9	827.1	689.0	633.4	609.2	593.5	580.4	571.9	567.3	561.4	560.1
15°	1016.9	872.3	714.6	654.4	625.6	605.3	588.9	575.8	567.3	560.1	558.2
17.5°	1091.5	918.1	737.5	668.8	633.4	609.2	585.7	568.0	557.5	548.4	545.7
20°	1175.2	965.2	752.5	671.4	630.8	598.7	571.3	549.0	538.5	526.1	523.5
22.5°	1262.9	1009.0	759.1	665.5	616.4	579.1	549.7	526.8	511.7	498.6	494.7
25°	1348.0	1048.3	755.8	649.1	594.8	551.6	521.5	498.0	481.6	468.5	465.3
27.5°	1438.3	1081.0	744.0	624.9	565.4	521.5	492.7	472.5	457.4	443.0	439.7
30°	1539.7	1111.1	725.0	595.5	530.7	490.8	468.5	454.8	438.4	423.4	418.8
32.5°	1662.1	1137.9	697.6	560.1	499.9	463.9	451.5	441.0	422.1	406.4	403.1
35°	1802.1	1160.2	662.9	523.5	469.8	446.9	444.3	430.6	405.7	387.4	383.5
37.5°	1964.4	1181.8	621.6	487.5	447.6	439.1	439.7	416.2	386.1	363.8	361.2
40°	2139.1	1203.4	575.8	456.1	427.3	434.5	428.6	395.2	346.2	324.6	321.9
42.5°	2321.0	1226.9	529.4	426.6	410.3	416.8	408.3	353.4	318.0	306.9	305.6
45°	2485.3	1255.1	479.0	397.2	393.3	391.3	376.9	320.0	304.9	297.1	296.4
47.5°	2603.7	1250.5	425.3	369.1	375.0	368.4	324.6	304.3	291.8	281.4	278.8
50°	2582.1	1170.7	369.7	337.7	351.4	345.5	291.8	286.0	274.8	263.7	259.8
52.5°	2527.2	1062.0	321.3	304.3	325.9	312.1	269.6	263.7	253.9	239.5	234.9
55°	2556.6	960.0	283.3	277.5	299.7	258.5	244.7	235.6	225.1	209.4	207.4
57.5°	2461.7	783.3	227.7	231.6	265.0	220.5	214.6	200.2	182.6	172.1	170.8
60°	1704.0	420.8	142.7	147.2	191.7	185.2	192.4	179.3	157.7	147.9	145.9
62.5°	782.6	168.8	77.9	74.6	100.8	125.6	164.9	163.6	136.8	121.1	119.7
65°	189.8	77.2	55.6	52.3	56.9	75.3	107.3	128.9	110.6	92.3	90.3
67.5°	61.5	62.8	51.0	47.8	50.4	56.3	64.1	71.3	70.7	64.8	63.5
70°	49.1	56.9	47.1	43.2	43.2	45.2	43.2	34.7	30.1	32.7	34.0
72.5°	36.6	43.2	37.3	33.4	32.1	31.4	26.8	19.6	13.7	12.4	11.8
75°	21.6	24.2	22.9	19.6	18.3	16.4	13.1	8.5	4.6	3.3	2.0
77.5°	3.9	4.6	5.2	3.9	3.3	2.6	2.0	0.7	0.0	0.0	0.0
80°	0.0	0.7	0.7	0.7	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)