

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: P632610

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

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632610  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
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  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

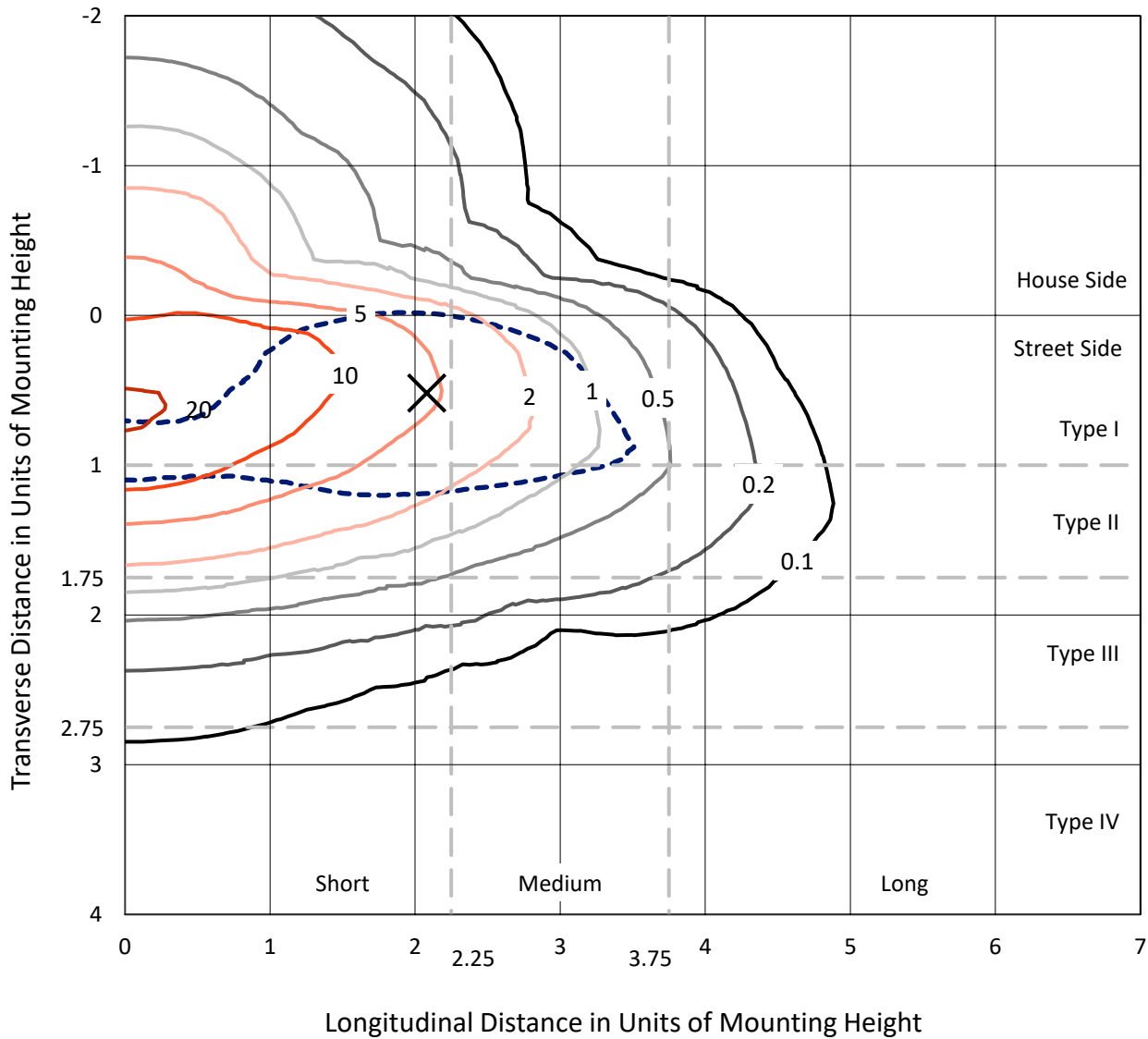
Lumens per Lamp: N/A  
Luminaire Lumens: 8769.8 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

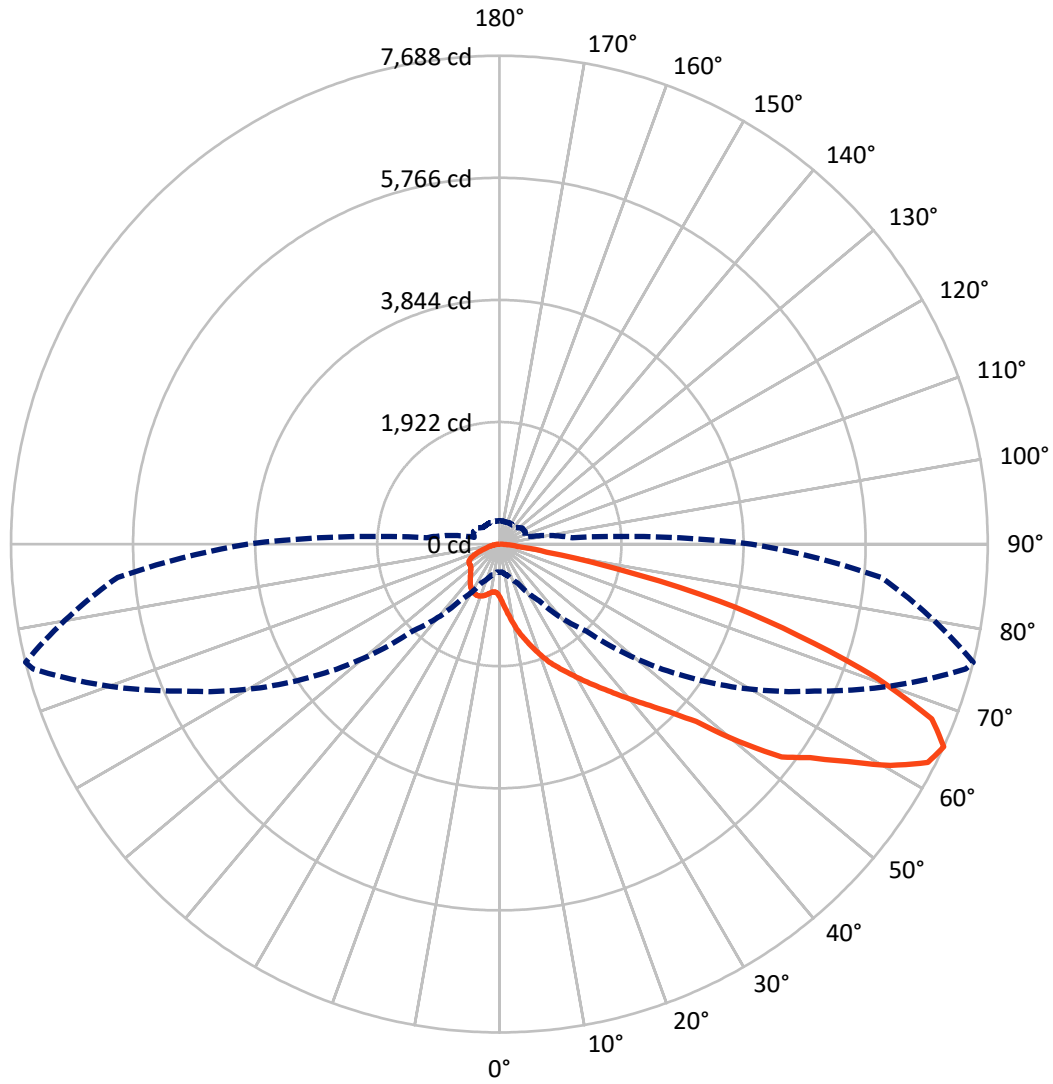
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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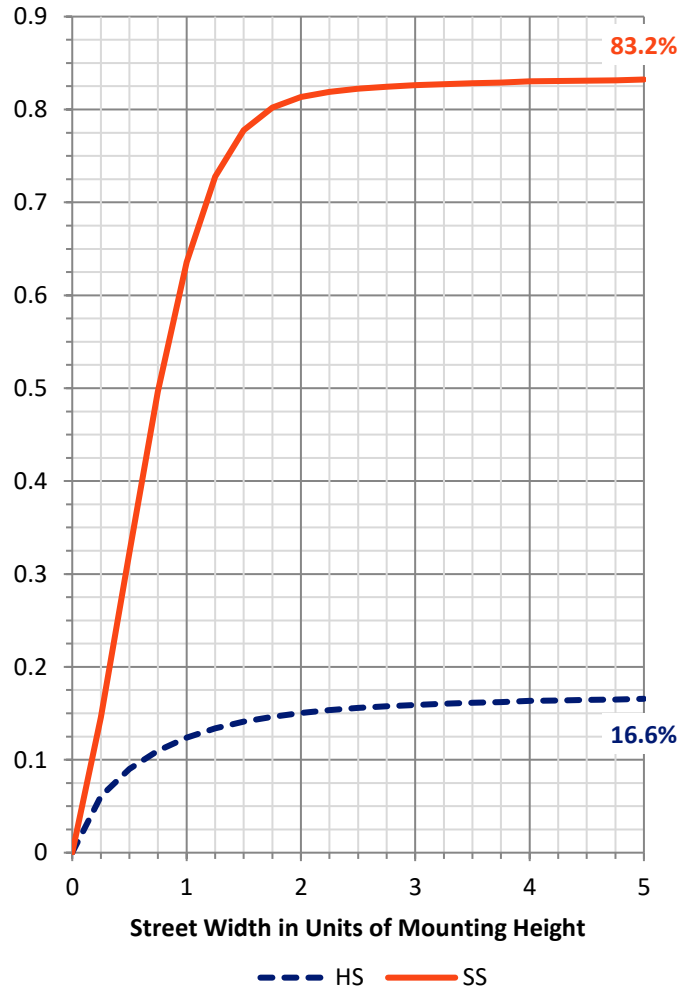
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1465.9	0.0	1465.9
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	7303.9	0.0	7303.9
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	8769.8	0.0	8769.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	1.1
10°-20°	375.8	4.3
20°-30°	732.4	8.4
30°-40°	1224.9	14.0
40°-50°	1753.8	20.0
50°-60°	2076.2	23.7
60°-70°	1726.4	19.7
70°-80°	706.5	8.1
80°-90°	75.2	0.9
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°	8769.8	100.0
0°-180°	8769.8	100.0

**Coefficient of Utilization**



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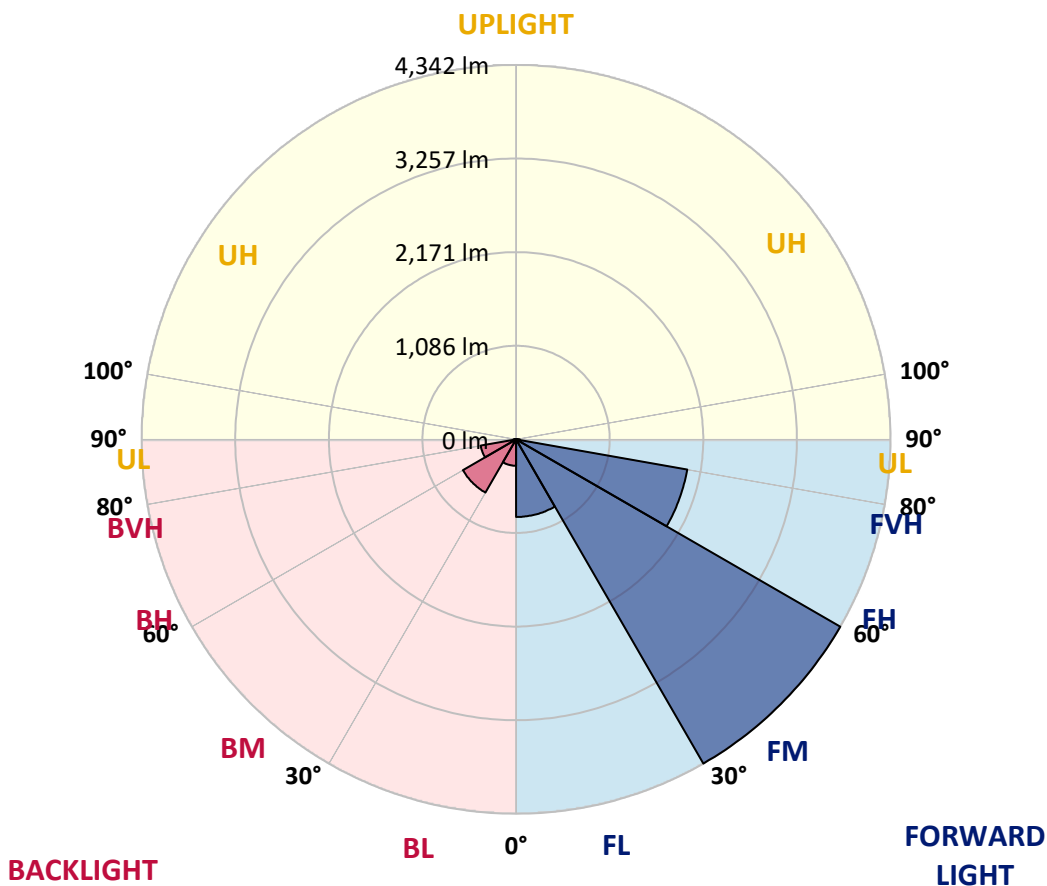
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	900.2	10.3			
FM (30°-60°)	4342.5	49.5			
FH (60°-80°)	2016.4	23.0			G2/5000
FVH (80°-90°)	44.9	0.5			G1/100
BL (0°-30°)	306.7	3.5	B1/500		
BM (30°-60°)	712.4	8.1	B1/1000		
BH (60°-80°)	416.5	4.7	B1/500		G1/500
BVH (80°-90°)	30.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5
2.5°	1164.0	1168.3	1154.1	1149.2	1115.9	1070.9	1033.3	976.6	924.2	916.2	869.3
5°	1478.4	1459.9	1443.9	1433.4	1387.2	1336.0	1256.5	1149.8	1038.2	1024.7	923.6
7.5°	1665.3	1662.2	1642.4	1636.3	1600.5	1549.3	1467.3	1334.8	1172.6	1150.4	996.9
10°	1815.1	1813.2	1803.4	1808.9	1776.2	1726.3	1646.8	1509.9	1320.0	1297.8	1078.9
12.5°	1945.8	1948.9	1947.0	1967.4	1950.7	1911.9	1829.2	1678.8	1467.3	1443.3	1178.8
15°	2041.3	2043.8	2053.0	2097.4	2106.7	2098.7	2014.8	1844.7	1612.8	1578.3	1281.8
17.5°	2068.5	2073.4	2095.6	2167.1	2217.0	2250.3	2188.1	2013.6	1755.9	1718.3	1386.6
20°	2104.8	2110.4	2132.6	2207.2	2280.5	2356.4	2345.3	2185.0	1900.1	1869.3	1492.6
22.5°	2273.2	2268.8	2259.0	2294.7	2347.1	2441.5	2469.2	2349.6	2049.3	2019.8	1609.8
25°	2597.4	2589.4	2526.5	2493.9	2476.6	2533.9	2583.3	2499.4	2194.9	2150.5	1718.9
27.5°	2955.0	2950.7	2870.6	2792.9	2686.8	2662.2	2691.2	2630.1	2336.0	2291.0	1813.8
30°	3293.5	3280.6	3196.7	3099.3	2957.5	2851.5	2808.9	2758.4	2490.8	2443.9	1924.8
32.5°	3596.2	3579.6	3480.9	3373.0	3224.5	3099.3	2972.3	2894.6	2665.9	2611.6	2038.3
35°	3844.7	3828.0	3726.9	3612.3	3448.9	3356.4	3182.5	3042.6	2844.1	2789.2	2172.0
37.5°	4037.0	4021.6	3916.2	3803.4	3661.0	3587.6	3436.5	3209.0	3049.4	2992.0	2313.8
40°	4144.9	4133.8	4049.4	3960.0	3840.4	3776.9	3709.1	3419.3	3279.3	3222.0	2480.9
42.5°	4177.6	4170.2	4111.0	4064.8	3984.0	3935.9	3974.8	3666.5	3524.7	3474.8	2669.0
45°	4095.6	4095.6	4078.4	4101.8	4105.5	4104.9	4241.1	3945.8	3826.2	3771.3	2934.1
47.5°	3886.0	3899.6	3924.8	4040.1	4161.6	4263.3	4552.5	4318.2	4214.0	4169.0	3309.5
50°	3502.5	3539.5	3625.8	3850.9	4109.2	4368.1	4847.2	4868.7	4968.0	4888.5	3862.0
52.5°	2940.9	2935.3	3155.4	3476.0	3870.0	4372.4	5009.3	5354.6	5621.5	5566.7	4272.6
55°	2337.3	2328.0	2533.3	2975.4	3503.1	4207.2	5106.7	5577.1	5984.1	5934.7	4641.9
57.5°	1789.8	1778.1	1960.6	2359.5	2985.2	3856.4	5088.2	5842.3	6482.8	6457.5	5143.7
60°	1231.8	1217.6	1388.4	1737.4	2372.4	3320.0	4883.5	5978.5	7066.7	7075.3	5680.7
62.5°	739.8	731.8	855.7	1126.4	1706.6	2655.4	4404.5	5895.9	7531.5	7570.4	6026.0
65°	446.4	440.8	513.6	672.0	1082.6	1937.8	3665.9	5473.6	7598.7	7688.1	6034.0
67.5°	324.9	325.5	346.5	409.4	631.3	1251.6	2751.0	4716.5	7248.6	7341.0	5653.6
70°	282.4	283.6	294.7	308.9	381.6	716.4	1788.6	3723.2	6213.4	6284.9	4741.7
72.5°	250.9	250.9	258.3	265.7	298.4	436.5	958.1	2602.4	4903.9	4923.0	3619.0
75°	220.7	218.9	222.6	226.3	258.9	305.2	466.1	1813.2	3622.1	3577.7	2339.1
77.5°	175.7	173.9	174.5	178.2	207.8	218.3	236.1	1132.6	2041.3	1926.7	1033.3
80°	125.2	123.9	130.7	140.0	153.5	133.8	148.0	548.1	809.5	753.4	400.7
82.5°	74.6	77.1	87.5	94.9	106.0	83.8	95.6	183.1	286.7	279.3	162.8
85°	10.5	11.1	31.4	36.4	45.6	32.7	50.6	82.6	114.7	122.7	57.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	14.8	32.7	33.3	14.2
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°	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5	830.5
2.5°	845.3	816.3	775.0	740.5	711.5	688.0	668.3	653.5	649.2	643.0	643.0
5°	876.1	823.7	749.7	697.3	667.1	649.2	636.9	630.7	627.6	623.9	622.1
7.5°	918.6	845.3	745.4	692.4	668.9	657.8	649.8	646.1	643.7	640.0	640.0
10°	977.2	877.3	759.0	709.6	691.1	680.0	670.8	664.6	659.1	653.5	652.3
12.5°	1040.7	919.2	783.6	733.1	713.3	699.8	686.8	677.6	670.8	664.0	662.2
15°	1111.0	962.4	810.1	755.9	731.2	712.7	697.3	683.1	673.9	664.0	662.8
17.5°	1180.0	1006.2	832.3	771.3	739.8	717.0	694.8	676.3	664.6	653.5	650.4
20°	1262.7	1050.0	847.7	775.6	738.0	707.8	681.3	657.8	644.9	631.9	630.1
22.5°	1338.5	1090.6	855.1	769.4	723.8	688.0	657.2	631.9	617.8	604.8	602.4
25°	1411.9	1126.4	852.0	754.6	702.2	660.9	628.9	603.6	590.0	576.5	572.8
27.5°	1482.8	1150.4	839.7	731.8	675.1	630.7	599.9	577.1	565.4	553.6	548.7
30°	1552.4	1172.6	820.6	702.2	640.6	599.3	574.0	558.0	546.2	533.9	530.2
32.5°	1622.7	1188.7	791.6	667.7	605.4	571.5	556.1	544.4	532.1	519.7	516.0
35°	1693.6	1195.5	756.5	628.2	575.8	553.6	548.1	534.5	517.9	503.1	498.2
37.5°	1778.1	1201.6	712.7	589.4	549.9	545.0	543.8	523.4	503.7	483.4	477.8
40°	1879.8	1209.6	667.7	554.3	529.0	541.9	537.0	509.3	469.8	450.1	443.9
42.5°	2004.3	1224.4	620.8	522.2	513.6	530.2	524.7	474.7	448.2	437.1	434.0
45°	2187.5	1278.7	574.0	496.9	501.9	513.6	504.9	454.4	443.9	436.5	432.8
47.5°	2513.6	1361.9	533.3	477.8	492.6	498.8	465.5	448.8	440.8	431.0	426.6
50°	2852.7	1398.3	500.6	466.1	482.1	485.2	443.9	441.4	435.9	425.4	421.1
52.5°	3082.0	1393.4	480.9	461.8	473.5	461.8	434.0	433.4	429.7	417.4	412.5
55°	3341.0	1402.0	472.3	463.0	469.8	422.3	421.7	423.6	421.7	408.1	405.7
57.5°	3690.6	1428.5	467.9	467.3	467.3	403.2	410.0	412.5	408.8	402.6	400.7
60°	4026.6	1430.4	459.9	472.3	465.5	391.5	396.4	398.9	394.6	393.3	392.7
62.5°	4153.0	1341.6	442.1	468.6	458.1	378.6	382.2	383.5	379.2	382.2	381.6
65°	3964.9	1152.9	412.5	450.7	435.3	366.8	364.4	367.5	360.1	368.1	368.7
67.5°	3520.4	916.2	367.5	416.8	403.2	353.9	349.0	349.0	336.6	349.0	348.3
70°	2838.5	647.4	301.5	362.5	368.1	338.5	336.0	321.8	302.1	320.6	318.7
72.5°	2151.7	464.9	237.4	286.7	316.9	316.9	317.5	293.5	270.7	279.3	271.9
75°	1363.2	327.4	189.9	219.5	248.5	278.1	292.2	247.8	227.5	223.8	220.1
77.5°	614.1	215.2	148.0	168.3	176.3	219.5	267.0	213.3	185.6	177.6	175.1
80°	257.1	133.8	105.4	119.0	108.5	184.3	235.5	165.8	136.3	125.2	117.1
82.5°	112.8	79.5	67.2	64.1	67.8	136.9	175.7	110.4	85.1	115.3	116.5
85°	47.5	41.9	34.5	31.4	27.7	52.4	82.6	43.2	53.0	30.2	24.7
87.5°	11.1	12.3	9.2	6.2	3.7	0.6	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)