

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: P633047

Luminaire Tested: GWS-SA2D-830-U-T2R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633047  
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-830-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) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

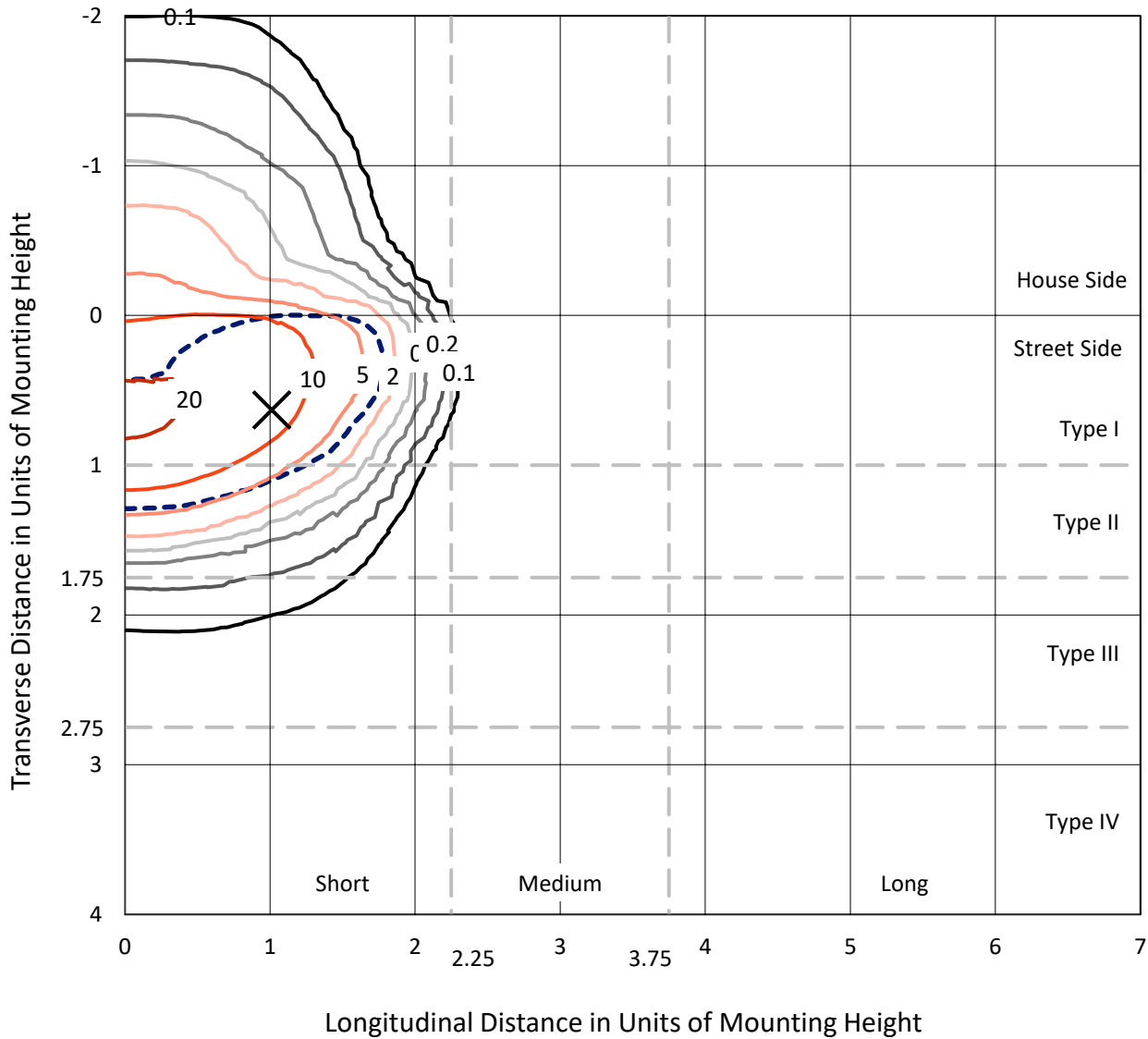
Lumens per Lamp: N/A  
Luminaire Lumens: 6217.7 lumens  
Efficiency: N/A  
Efficacy: 75.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G0  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

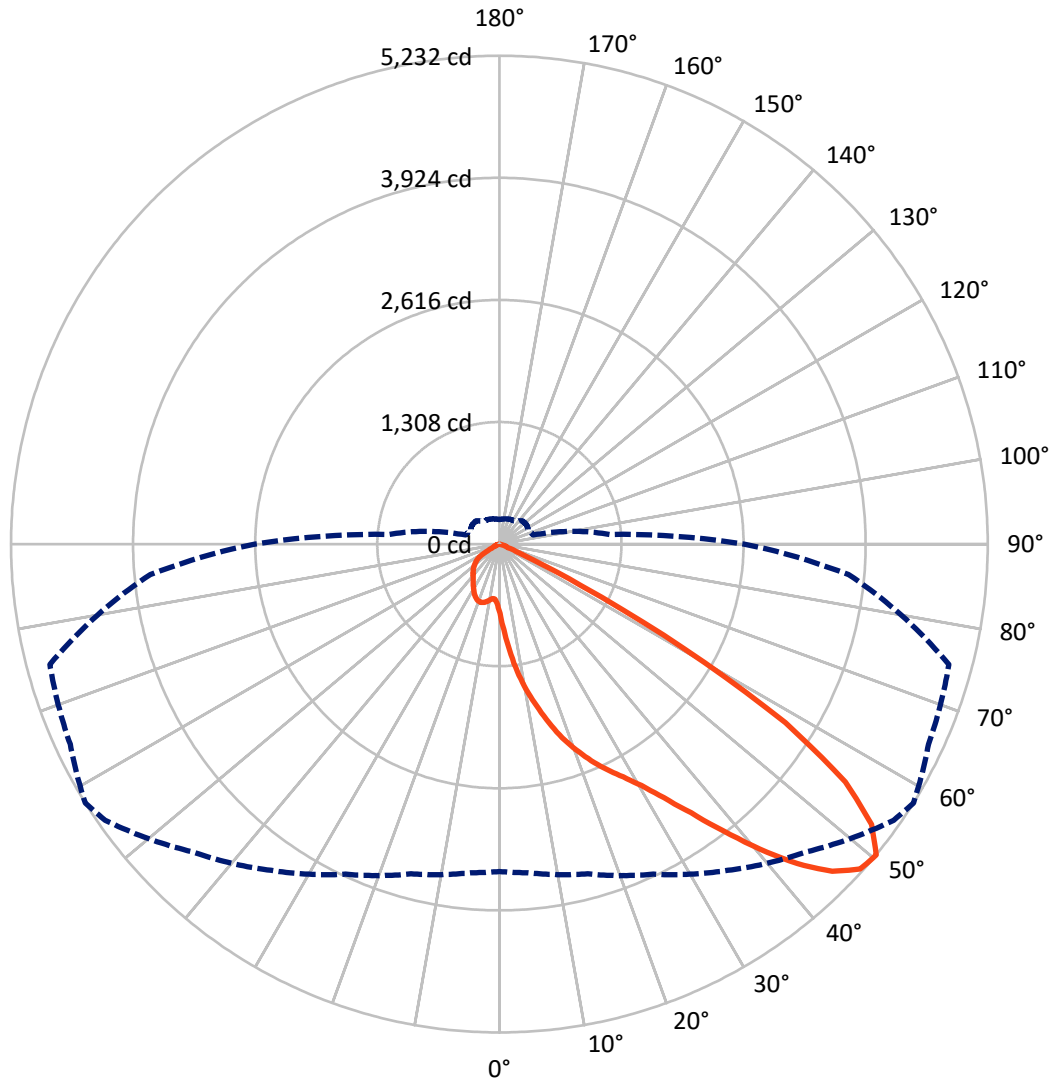
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.8 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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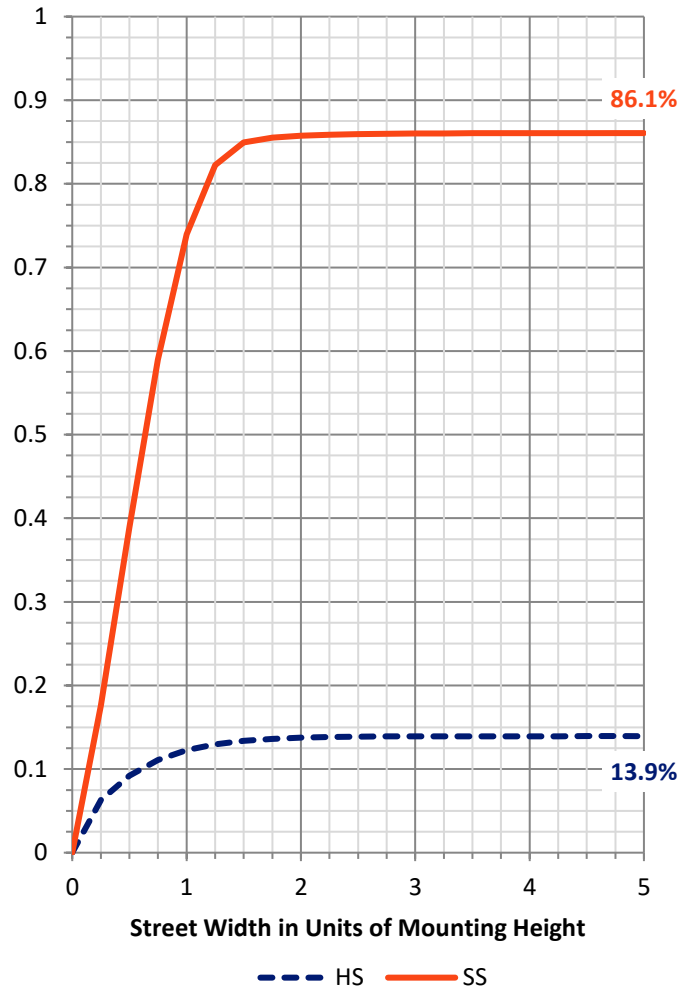
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	870.9	0.0	870.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	5346.8	0.0	5346.8
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	6217.7	0.0	6217.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.0	1.5
10°-20°	364.2	5.9
20°-30°	737.0	11.9
30°-40°	1303.9	21.0
40°-50°	1900.8	30.6
50°-60°	1523.6	24.5
60°-70°	274.5	4.4
70°-80°	21.6	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°	6217.7	100.0
0°-180°	6217.7	100.0

**Coefficient of Utilization**



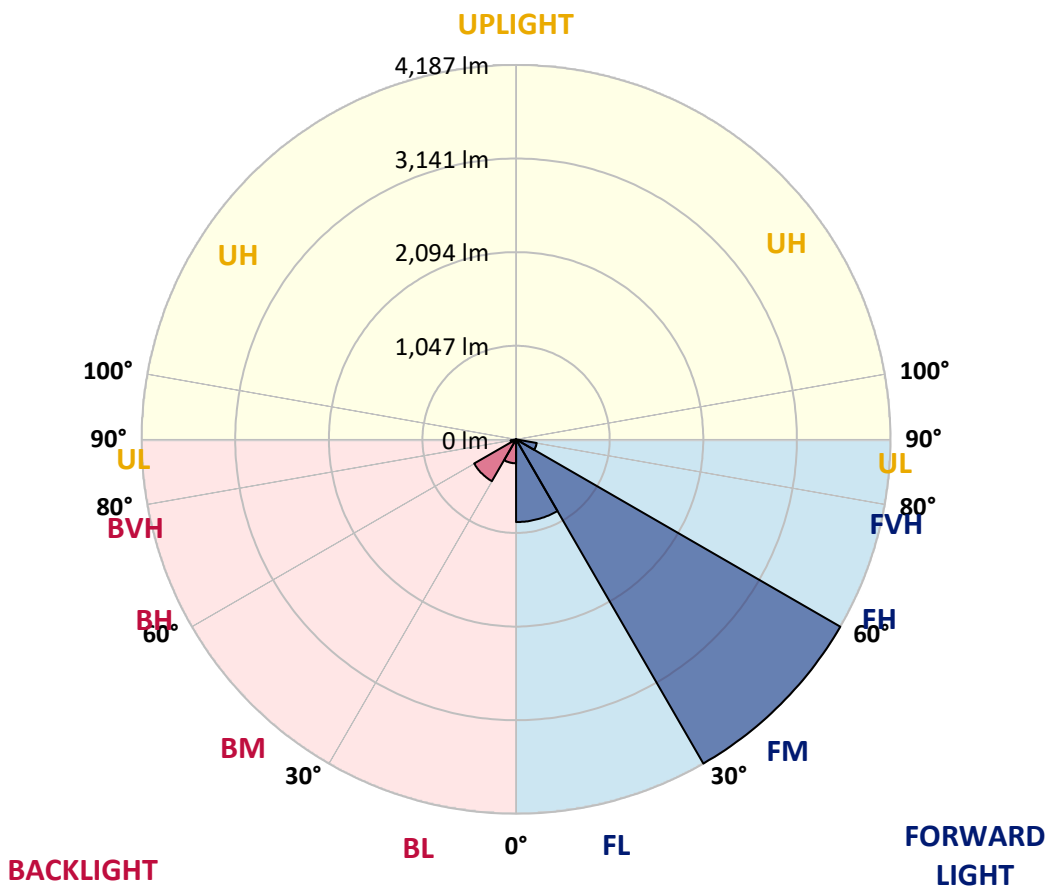
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.2	14.9			
FM (30°-60°)	4187.4	67.3			
FH (60°-80°)	234.2	3.8			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	268.1	4.3	B1/500		
BM (30°-60°)	540.9	8.7	B1/1000		
BH (60°-80°)	61.9	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°	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7
2.5°	1099.1	1081.8	1071.8	1063.8	1028.6	972.7	936.2	916.9	885.0	831.1	784.6
5°	1434.2	1421.6	1398.3	1382.3	1337.1	1258.0	1176.2	1143.6	1071.2	949.5	840.4
7.5°	1656.3	1647.0	1638.3	1617.0	1574.5	1502.7	1412.2	1378.3	1266.6	1093.8	914.9
10°	1827.1	1819.8	1809.9	1809.2	1775.9	1711.5	1623.0	1587.8	1466.8	1250.7	1002.7
12.5°	1977.4	1971.4	1969.4	1988.1	1966.8	1918.9	1823.2	1779.3	1650.9	1410.9	1099.7
15°	2080.5	2079.1	2087.8	2124.4	2136.3	2114.4	2033.9	1986.7	1839.1	1571.8	1206.8
17.5°	2127.7	2131.7	2148.3	2211.5	2264.7	2283.3	2221.4	2181.5	2026.0	1734.7	1321.2
20°	2208.1	2206.8	2216.8	2276.6	2341.8	2408.3	2389.7	2355.7	2214.8	1906.9	1448.2
22.5°	2434.9	2415.6	2394.3	2403.6	2426.9	2504.7	2539.3	2522.0	2409.6	2083.8	1579.1
25°	2783.3	2763.3	2694.8	2628.4	2584.5	2619.7	2666.9	2675.6	2603.1	2265.3	1716.1
27.5°	3153.0	3135.0	3057.9	2958.1	2832.5	2771.3	2806.5	2823.8	2793.2	2481.4	1861.7
30°	3499.4	3475.4	3391.0	3267.3	3121.7	3028.0	2988.1	3000.0	3018.0	2737.4	2032.6
32.5°	3799.9	3782.0	3680.9	3550.6	3410.3	3312.5	3219.4	3239.4	3283.3	3050.6	2251.4
35°	4054.6	4045.3	3938.2	3808.5	3660.3	3610.4	3530.6	3534.6	3578.5	3428.9	2518.0
37.5°	4276.0	4260.0	4162.9	4042.6	3924.9	3916.9	3895.0	3897.0	3919.6	3869.7	2824.5
40°	4415.6	4401.0	4331.8	4257.4	4173.6	4174.9	4288.6	4297.3	4271.3	4302.6	3148.3
42.5°	4468.1	4457.5	4420.3	4420.9	4412.3	4451.5	4664.9	4680.9	4587.8	4642.3	3424.9
45°	4377.0	4372.4	4375.0	4470.8	4574.5	4695.5	4972.8	5000.7	4869.1	4867.7	3641.0
47.5°	4083.2	4073.8	4151.6	4314.5	4554.6	4789.9	5159.0	5202.2	5065.9	4996.7	3776.6
50°	3507.3	3533.9	3657.0	3901.6	4266.7	4660.3	5157.0	5232.1	5073.2	4985.4	3754.0
52.5°	2540.6	2535.3	2804.5	3141.0	3585.1	4245.4	4883.0	4992.7	4895.7	4874.4	3703.5
55°	1382.3	1430.9	1612.4	2057.9	2612.4	3460.1	4257.4	4496.7	4609.1	4833.8	3794.6
57.5°	508.0	529.3	643.0	958.1	1383.0	2151.6	3252.0	3613.1	3960.1	4720.8	3779.3
60°	204.8	208.8	254.0	352.4	581.1	1095.1	1950.8	2271.3	2598.4	3613.7	2900.3
62.5°	148.9	154.3	172.2	206.1	293.9	478.7	841.1	978.1	1069.2	1789.9	1428.9
65°	120.3	124.3	139.0	154.3	194.2	257.3	271.3	261.3	260.0	462.8	327.8
67.5°	99.7	103.7	114.4	125.0	139.6	128.3	93.1	97.7	79.8	79.1	64.5
70°	73.1	77.8	88.4	99.7	83.8	34.6	53.9	79.8	60.5	50.5	49.2
72.5°	55.2	58.5	68.5	65.2	24.6	13.3	35.9	57.8	46.5	37.2	36.6
75°	41.2	43.2	34.6	10.6	2.7	3.3	13.3	23.9	25.9	21.3	21.3
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.0	2.7	3.3	4.0
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°	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7	742.7
2.5°	758.0	730.1	690.2	656.9	631.7	607.1	588.4	569.8	569.2	559.8	557.9
5°	789.9	739.4	666.2	613.7	581.8	562.5	549.2	542.6	539.2	535.9	534.6
7.5°	835.8	763.3	662.2	606.4	579.8	567.2	557.9	553.9	551.9	549.2	548.5
10°	892.3	797.9	676.9	620.4	597.1	585.1	575.1	569.2	565.8	561.2	559.8
12.5°	960.1	840.4	700.1	643.6	619.0	603.1	589.8	581.1	576.5	570.5	569.2
15°	1033.3	886.3	726.1	664.9	635.6	615.0	598.4	585.1	576.5	569.2	567.2
17.5°	1109.1	932.9	749.3	679.5	643.6	619.0	595.1	577.1	566.5	557.2	554.5
20°	1194.2	980.7	764.6	682.2	641.0	608.4	580.5	557.9	547.2	534.6	531.9
22.5°	1283.3	1025.3	771.3	676.2	626.3	588.4	558.5	535.2	520.0	506.7	502.7
25°	1369.7	1065.2	768.0	659.6	604.4	560.5	529.9	506.0	489.4	476.1	472.7
27.5°	1461.5	1098.4	756.0	635.0	574.5	529.9	500.7	480.1	464.8	450.1	446.8
30°	1564.5	1129.0	736.7	605.1	539.2	498.7	476.1	462.1	445.5	430.2	425.5
32.5°	1688.8	1156.3	708.8	569.2	508.0	471.4	458.8	448.1	428.9	412.9	409.6
35°	1831.1	1178.9	673.5	531.9	477.4	454.1	451.5	437.5	412.2	393.6	389.6
37.5°	1996.0	1200.8	631.7	495.4	454.8	446.1	446.8	422.9	392.3	369.7	367.0
40°	2173.6	1222.8	585.1	463.4	434.2	441.5	435.5	401.6	351.7	329.8	327.1
42.5°	2358.4	1246.7	537.9	433.5	416.9	423.5	414.9	359.0	323.1	311.8	310.5
45°	2525.3	1275.3	486.7	403.6	399.6	397.6	383.0	325.1	309.8	301.9	301.2
47.5°	2645.6	1270.6	432.2	375.0	381.0	374.3	329.8	309.2	296.5	285.9	283.2
50°	2623.7	1189.5	375.7	343.1	357.1	351.1	296.5	290.6	279.3	268.0	264.0
52.5°	2567.8	1079.1	326.5	309.2	331.1	317.2	273.9	268.0	258.0	243.4	238.7
55°	2597.8	975.4	287.9	281.9	304.5	262.6	248.7	239.4	228.7	212.8	210.8
57.5°	2501.4	795.9	231.4	235.4	269.3	224.1	218.1	203.5	185.5	174.9	173.5
60°	1731.4	427.5	144.9	149.6	194.8	188.2	195.5	182.2	160.2	150.3	148.3
62.5°	795.2	171.5	79.1	75.8	102.4	127.7	167.6	166.2	139.0	123.0	121.7
65°	192.8	78.5	56.5	53.2	57.8	76.5	109.0	131.0	112.4	93.8	91.8
67.5°	62.5	63.8	51.9	48.5	51.2	57.2	65.2	72.5	71.8	65.8	64.5
70°	49.9	57.8	47.9	43.9	43.9	45.9	43.9	35.2	30.6	33.2	34.6
72.5°	37.2	43.9	37.9	33.9	32.6	31.9	27.3	19.9	14.0	12.6	12.0
75°	21.9	24.6	23.3	19.9	18.6	16.6	13.3	8.6	4.7	3.3	2.0
77.5°	4.0	4.7	5.3	4.0	3.3	2.7	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)