

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: P631205

Luminaire Tested: GWS-SA1F-730-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-730-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (16) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7812.3 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

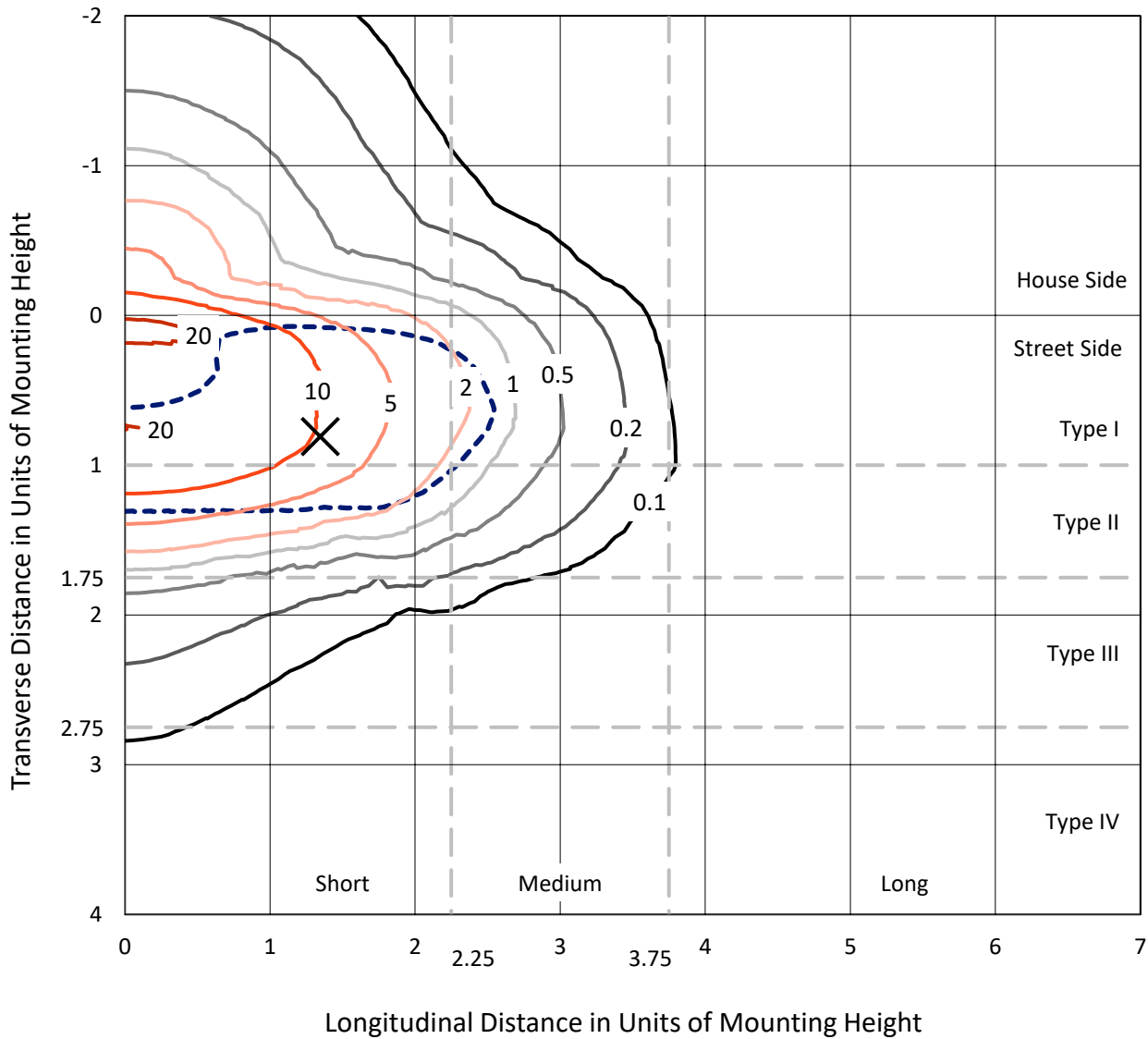
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

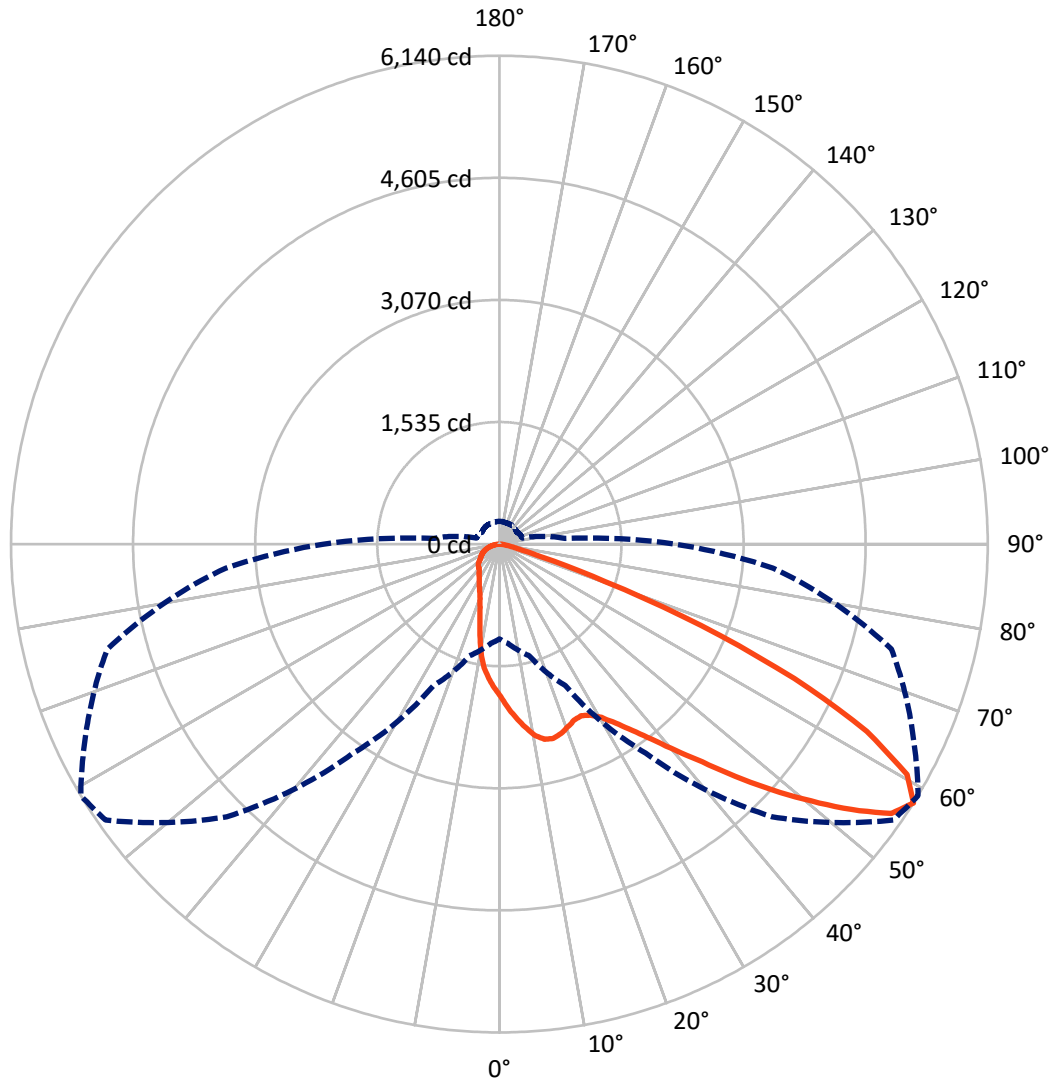
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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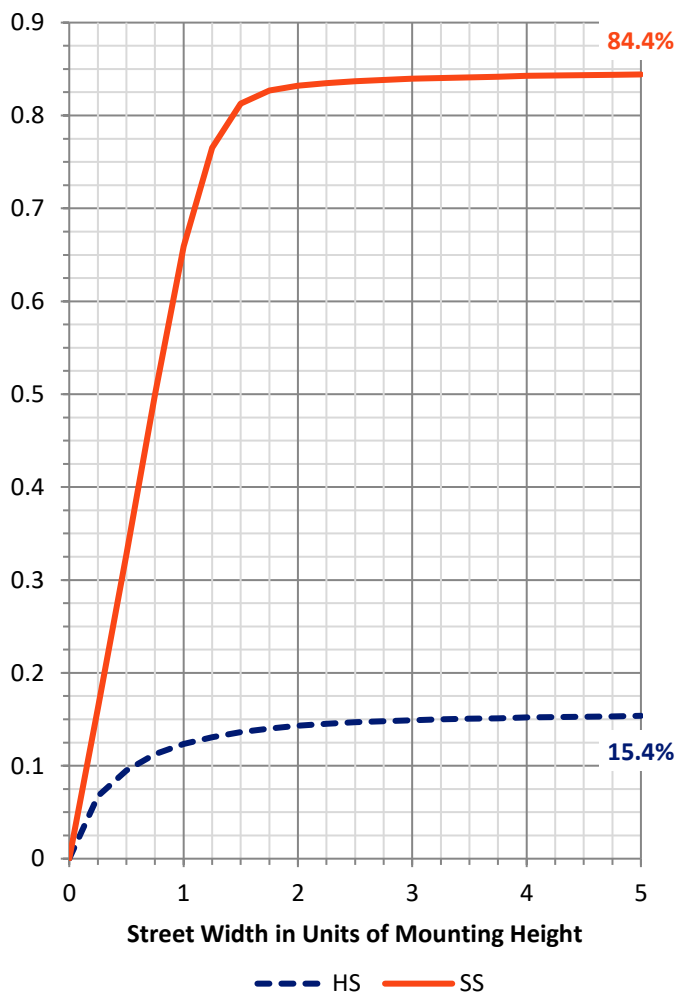
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1212.4	0.0	1212.4
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6599.9	0.0	6599.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	7812.3	0.0	7812.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.1	2.3
10°-20°	451.2	5.8
20°-30°	731.4	9.4
30°-40°	1176.6	15.1
40°-50°	1827.2	23.4
50°-60°	1968.1	25.2
60°-70°	1142.2	14.6
70°-80°	298.2	3.8
80°-90°	39.3	0.5
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°	7812.3	100.0
0°-180°	7812.3	100.0

Coefficient of Utilization



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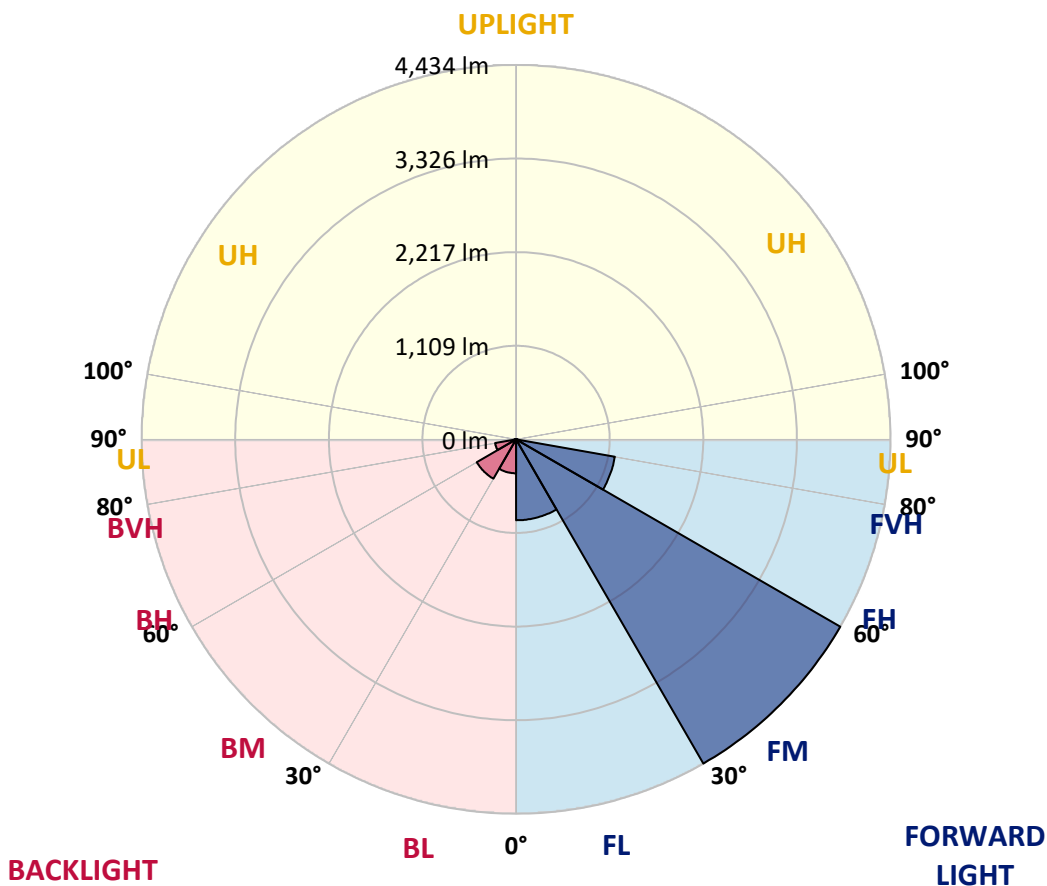
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	958.5	12.3			
FM (30°-60°)	4434.4	56.8			
FH (60°-80°)	1188.2	15.2			G1/1800
FVH (80°-90°)	18.8	0.2			G1/100
BL (0°-30°)	402.2	5.1	B1/500		
BM (30°-60°)	537.5	6.9	B1/1000		
BH (60°-80°)	252.2	3.2	B1/500		G1/500
BVH (80°-90°)	20.5	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8
2.5°	2175.2	2157.0	2169.7	2147.1	2137.8	2113.0	2081.1	2059.7	2026.7	1983.8	1946.4
5°	2391.3	2378.7	2381.4	2357.2	2335.8	2294.5	2229.1	2192.8	2136.7	2050.3	1970.0
7.5°	2384.7	2399.6	2407.8	2428.7	2434.8	2430.9	2372.1	2321.5	2259.9	2130.1	2009.1
10°	2137.8	2165.8	2191.1	2262.6	2349.5	2459.5	2473.3	2443.0	2380.9	2231.8	2055.8
12.5°	1868.8	1890.3	1912.8	1998.6	2131.7	2351.7	2500.8	2519.5	2494.7	2332.5	2108.6
15°	1736.8	1746.7	1768.2	1824.8	1931.0	2175.2	2452.9	2534.9	2579.4	2439.2	2168.0
17.5°	1731.3	1735.7	1746.2	1776.4	1850.1	2038.8	2366.6	2504.1	2646.0	2551.9	2237.3
20°	1845.2	1833.6	1827.0	1826.5	1862.8	1993.1	2283.0	2454.6	2677.3	2667.4	2311.6
22.5°	2003.0	2006.9	1992.6	1957.4	1953.0	2025.6	2241.2	2404.5	2686.7	2769.7	2380.3
25°	2226.9	2246.1	2203.8	2136.7	2103.7	2119.6	2267.0	2389.1	2685.6	2855.0	2423.2
27.5°	2488.1	2503.0	2460.1	2372.1	2303.9	2265.4	2344.0	2434.8	2694.9	2928.7	2449.1
30°	2785.7	2790.6	2731.8	2639.4	2539.8	2457.3	2472.2	2528.8	2742.8	3025.5	2479.3
32.5°	3149.2	3170.1	3081.0	2934.7	2795.6	2690.0	2644.3	2680.6	2846.2	3139.8	2526.1
35°	3610.6	3617.8	3504.5	3294.9	3098.0	2951.8	2856.1	2875.3	3003.5	3299.9	2596.5
37.5°	4045.7	4052.8	3932.4	3737.7	3456.1	3255.9	3117.3	3108.5	3204.7	3525.9	2711.4
40°	4321.8	4342.1	4288.2	4166.1	3897.2	3627.1	3439.0	3408.8	3468.7	3802.6	2871.5
42.5°	4470.3	4479.1	4478.0	4493.9	4333.9	4065.5	3802.0	3741.5	3781.7	4101.2	3033.2
45°	4471.4	4493.4	4552.2	4705.6	4712.8	4545.6	4260.7	4166.1	4129.3	4402.1	3202.0
47.5°	4271.2	4294.8	4456.5	4758.4	4981.2	5019.1	4810.1	4620.4	4465.3	4661.1	3340.6
50°	3665.1	3724.5	4032.5	4566.5	5034.0	5398.6	5334.3	5076.9	4763.9	4861.3	3427.5
52.5°	3138.7	3136.5	3326.3	4024.2	4813.4	5565.8	5841.4	5546.6	5059.3	4988.3	3449.5
55°	2298.4	2311.0	2505.2	3077.7	4225.0	5404.1	6120.2	5978.9	5398.1	5056.0	3440.7
57.5°	1191.8	1254.5	1453.6	1964.0	3210.2	4847.5	6046.0	6140.0	5742.4	5103.8	3452.2
60°	602.2	590.1	661.6	937.7	1860.0	3786.1	5588.4	5888.1	5804.5	5141.2	3459.4
62.5°	402.0	398.7	378.9	434.5	760.1	2242.3	4763.9	5184.1	5372.8	5053.2	3368.1
65°	348.1	341.5	305.2	303.0	369.0	930.0	3491.8	4075.4	4440.6	4662.2	3149.7
67.5°	313.5	303.6	266.7	248.6	265.1	408.6	1967.8	2733.4	3279.0	3942.8	2671.3
70°	279.9	275.0	238.1	211.7	210.1	249.1	724.9	1410.7	2006.3	2690.0	1953.0
72.5°	250.8	242.0	210.6	185.3	172.7	176.5	314.6	543.4	1038.4	1678.0	1168.2
75°	217.2	210.6	183.1	157.8	142.4	129.2	191.9	251.3	473.5	797.5	551.6
77.5°	167.7	163.3	144.6	125.4	116.6	96.2	116.6	158.4	218.9	336.0	287.1
80°	97.3	100.1	107.8	97.9	85.8	68.7	75.9	91.3	131.4	182.0	162.8
82.5°	48.9	52.2	69.8	56.6	51.1	40.1	45.1	53.9	68.7	100.6	63.8
85°	3.8	3.8	12.6	14.3	17.6	14.3	18.1	22.0	31.3	40.1	21.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	2.7	4.9	9.3	6.0
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°	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8	1917.8
2.5°	1921.1	1893.0	1859.5	1832.0	1789.6	1767.1	1738.5	1703.3	1689.0	1682.4	1678.5
5°	1924.9	1875.4	1803.9	1737.9	1664.8	1607.0	1542.7	1475.6	1437.1	1427.8	1421.2
7.5°	1939.2	1869.9	1756.1	1647.2	1511.4	1385.4	1262.8	1141.2	1079.1	1055.4	1053.2
10°	1959.0	1867.7	1707.7	1526.8	1297.4	1098.3	954.8	859.6	819.5	806.3	801.9
12.5°	1983.8	1866.1	1643.9	1359.6	1050.5	862.4	780.4	765.0	770.5	769.4	769.4
15°	2015.1	1868.3	1566.9	1170.4	849.7	748.5	750.2	768.3	785.4	788.1	788.1
17.5°	2049.2	1866.1	1455.3	980.6	729.3	721.6	746.9	772.2	787.6	789.8	789.8
20°	2086.1	1855.6	1314.5	801.9	676.5	704.5	732.0	751.8	761.2	763.4	763.4
22.5°	2108.1	1825.9	1161.6	678.7	642.9	677.6	695.7	716.1	717.2	699.6	699.0
25°	2104.8	1770.4	987.2	599.5	607.2	637.4	660.5	646.2	628.6	618.7	617.1
27.5°	2083.9	1686.8	809.6	539.5	564.8	598.9	591.8	579.7	575.3	564.3	563.2
30°	2057.5	1583.9	650.1	492.8	520.8	552.2	541.2	540.1	535.7	523.6	523.6
32.5°	2032.2	1477.8	529.6	458.1	492.8	495.0	510.4	511.5	509.3	488.4	486.2
35°	2025.0	1371.7	448.2	430.6	465.3	464.2	486.2	485.6	447.7	418.5	418.0
37.5°	2046.5	1263.9	399.8	408.1	427.3	441.6	459.2	427.3	414.7	397.1	396.0
40°	2092.1	1164.3	375.1	394.9	403.1	424.0	396.5	398.7	395.4	382.2	380.6
42.5°	2152.6	1079.6	361.3	390.5	389.4	394.9	364.6	373.4	378.4	368.5	366.8
45°	2210.9	1005.9	354.2	374.0	379.5	347.6	341.5	349.8	357.5	353.6	352.0
47.5°	2253.8	942.1	350.3	351.4	366.8	331.6	321.7	325.6	334.9	336.6	336.0
50°	2267.0	887.7	345.9	332.7	329.4	315.7	308.0	306.9	317.9	325.6	326.7
52.5°	2241.7	839.3	334.4	316.2	300.3	302.5	299.7	294.2	305.2	315.7	316.8
55°	2204.3	811.8	316.2	300.3	281.6	290.4	291.5	286.5	293.7	300.8	300.8
57.5°	2207.1	827.7	298.6	285.4	265.1	276.6	282.7	280.5	280.5	286.0	286.5
60°	2225.2	850.8	287.1	266.7	248.6	260.7	274.4	272.2	267.3	274.4	274.4
62.5°	2173.0	820.0	279.4	248.6	231.0	245.3	261.8	260.7	255.2	266.7	267.8
65°	2019.0	737.5	270.6	226.0	213.4	229.9	244.2	248.0	243.1	258.5	261.2
67.5°	1692.3	620.4	253.5	204.6	195.8	211.2	224.9	230.4	226.6	244.7	246.9
70°	1261.7	502.1	226.6	180.9	174.3	188.1	200.7	202.9	203.5	224.9	227.1
72.5°	804.6	390.5	190.8	154.5	149.6	160.0	169.4	178.2	182.0	202.4	201.8
75°	448.8	290.4	153.4	130.9	122.1	130.3	141.3	151.8	162.8	192.5	195.8
77.5°	258.5	204.0	121.5	105.0	94.6	103.4	112.7	127.6	160.6	186.4	183.1
80°	145.7	132.5	91.8	77.0	70.4	77.0	84.1	112.2	126.5	137.5	139.1
82.5°	68.2	74.2	62.7	47.3	47.3	51.7	58.3	86.9	95.7	78.1	68.2
85°	24.7	33.5	30.8	24.2	21.4	20.9	36.3	49.5	30.8	27.5	23.6
87.5°	6.6	9.3	8.8	6.0	3.3	2.7	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)