

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: P632056

Luminaire Tested: GWS-SA2B-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632056
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5439.2 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

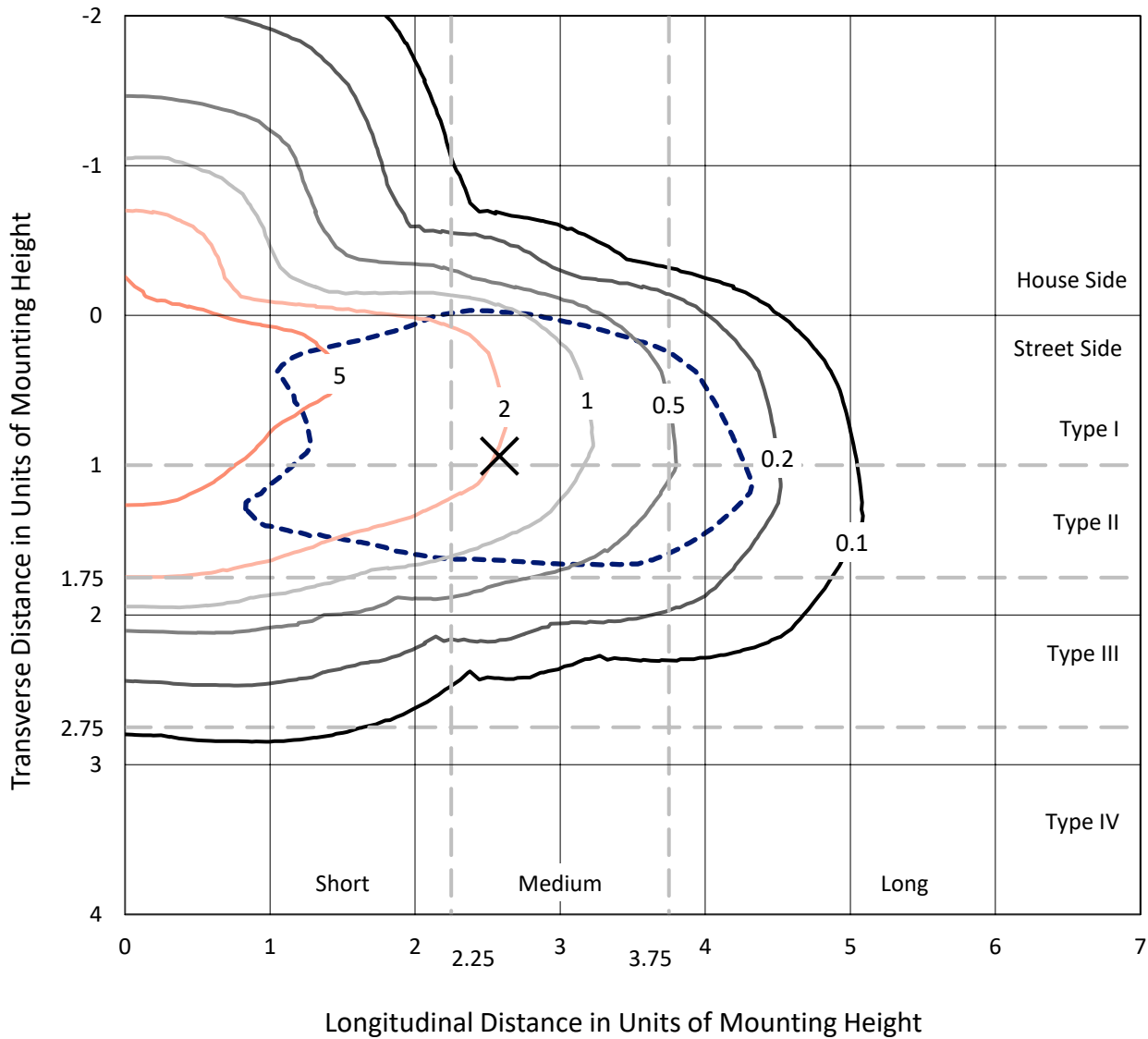
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

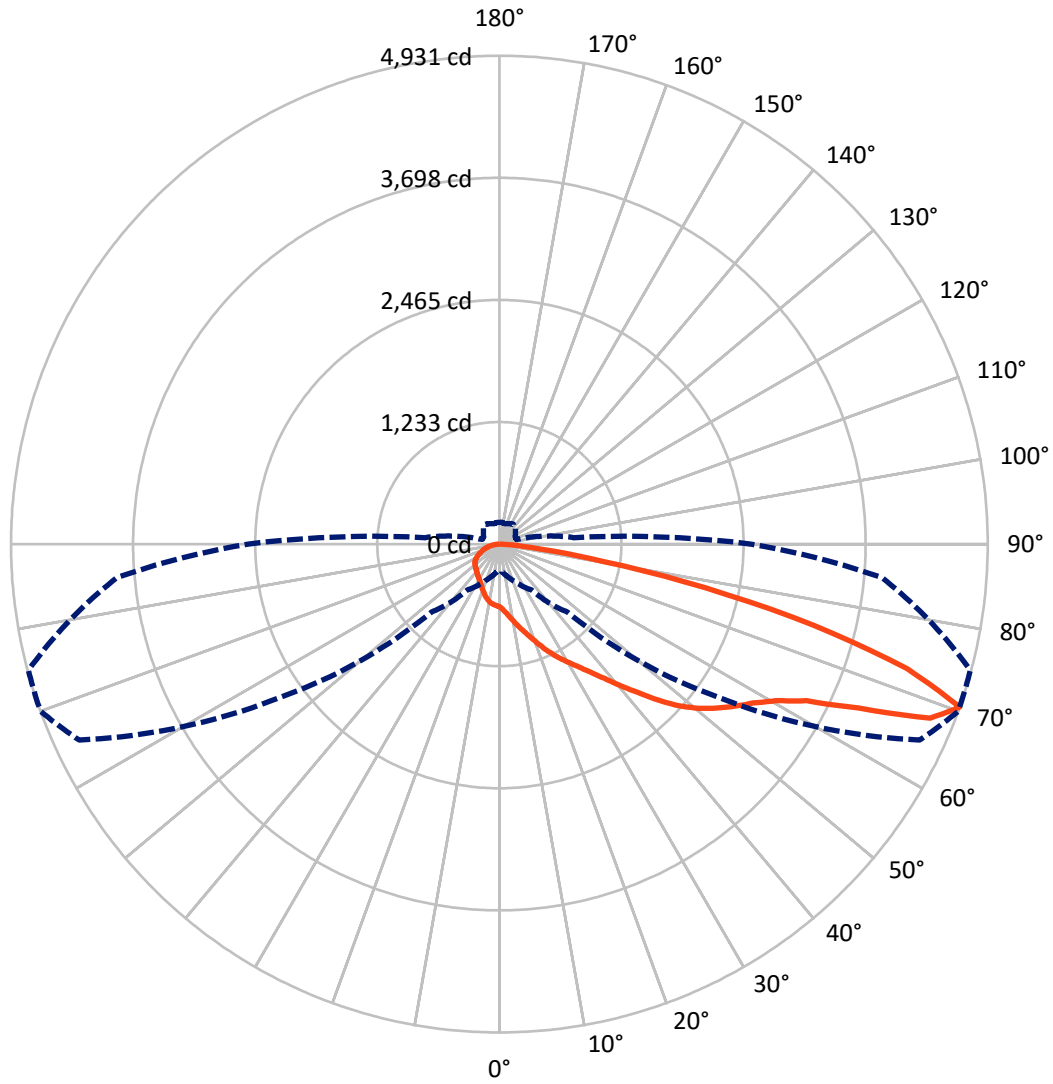
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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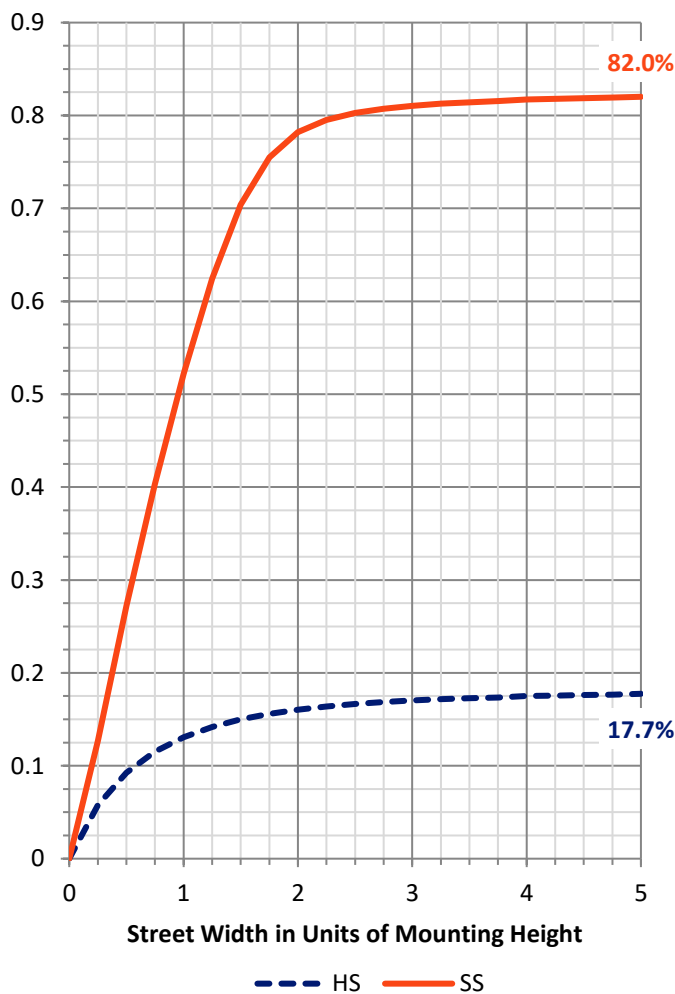
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	974.7	0.0	974.7
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	4464.5	0.0	4464.5
	% Fixture	82.1	0.0	82.1
Total	Lumens	5439.2	0.0	5439.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.2
10°-20°	209.7	3.9
20°-30°	371.5	6.8
30°-40°	559.2	10.3
40°-50°	846.0	15.6
50°-60°	1211.9	22.3
60°-70°	1339.6	24.6
70°-80°	756.0	13.9
80°-90°	80.9	1.5
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°	5439.2	100.0
0°-180°	5439.2	100.0

Coefficient of Utilization



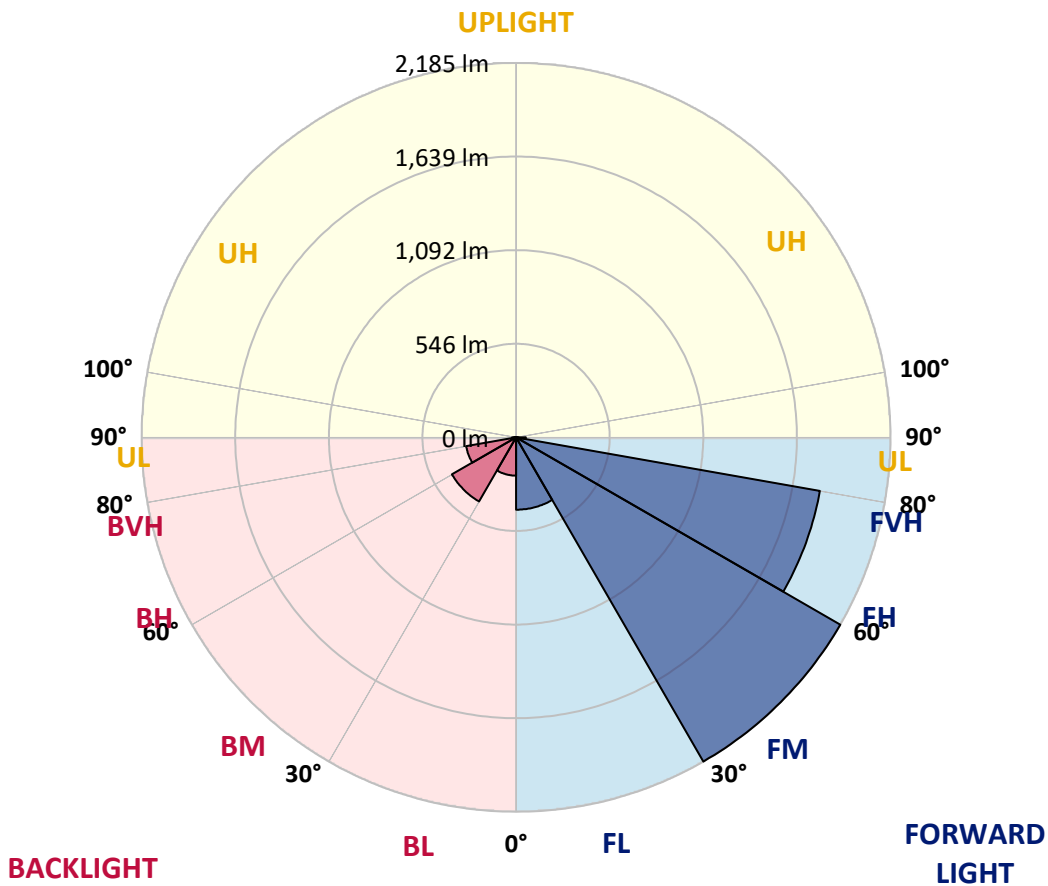
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.2	7.8			
FM (30°-60°)	2184.9	40.2			
FH (60°-80°)	1800.2	33.1			G2/5000
FVH (80°-90°)	57.2	1.1			G1/100
BL (0°-30°)	223.5	4.1	B1/500		
BM (30°-60°)	432.1	7.9	B1/1000		
BH (60°-80°)	295.4	5.4	B1/500		G1/500
BVH (80°-90°)	23.7	0.4			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3
2.5°	702.7	701.5	702.3	701.5	697.2	686.6	677.9	666.9	659.5	655.2	644.9
5°	785.2	784.1	781.3	777.4	769.5	755.0	733.4	709.4	694.8	683.8	662.2
7.5°	844.6	844.6	844.2	839.5	834.0	818.6	793.1	761.7	740.4	721.6	686.2
10°	874.8	876.8	879.6	886.2	885.1	876.8	852.8	819.0	792.3	770.3	717.6
12.5°	891.4	892.5	897.2	911.0	925.2	927.1	913.0	877.6	848.5	819.0	752.6
15°	912.6	913.0	919.3	935.8	956.6	977.4	973.9	938.5	908.6	876.0	791.5
17.5°	929.1	931.8	943.2	962.5	988.4	1017.1	1034.4	1012.4	975.5	938.1	834.0
20°	935.0	936.9	951.9	981.4	1016.7	1057.2	1095.7	1089.8	1052.5	1008.5	881.9
22.5°	956.2	956.2	967.2	992.0	1033.6	1092.6	1155.1	1170.4	1137.4	1085.9	933.4
25°	1003.0	1001.4	1006.5	1016.7	1048.2	1120.9	1213.6	1259.6	1222.7	1164.9	984.9
27.5°	1067.0	1066.2	1065.9	1067.4	1078.0	1145.6	1263.1	1342.9	1306.0	1240.7	1030.9
30°	1136.6	1134.2	1139.3	1134.6	1132.3	1175.1	1305.2	1417.6	1388.9	1315.8	1069.0
32.5°	1231.3	1227.0	1225.8	1210.5	1201.0	1221.1	1339.0	1502.5	1479.7	1396.8	1111.8
35°	1356.3	1352.4	1332.3	1307.9	1280.0	1289.5	1381.0	1585.4	1587.0	1498.2	1168.0
37.5°	1482.4	1483.2	1467.5	1410.1	1381.4	1375.9	1445.1	1686.4	1720.2	1619.2	1240.7
40°	1587.4	1592.1	1592.1	1531.6	1488.7	1483.6	1535.1	1806.3	1873.5	1767.8	1332.7
42.5°	1667.2	1671.5	1685.2	1641.6	1596.4	1614.1	1644.4	1926.6	2047.2	1951.3	1449.0
45°	1754.8	1758.3	1765.8	1740.7	1714.3	1761.5	1768.2	2070.4	2246.1	2157.2	1584.2
47.5°	1871.1	1868.0	1868.8	1850.3	1829.9	1906.1	1904.5	2191.4	2438.3	2382.8	1730.8
50°	2015.8	2021.7	2016.2	1979.6	1955.6	2025.2	2034.2	2325.5	2607.2	2606.1	1878.6
52.5°	2154.9	2157.2	2186.3	2187.9	2138.8	2124.2	2147.8	2460.7	2749.9	2810.4	2020.5
55°	2162.0	2171.0	2258.3	2321.1	2400.5	2283.8	2262.6	2589.6	2887.9	3010.5	2167.9
57.5°	2011.4	2026.0	2174.1	2309.7	2530.6	2557.7	2459.1	2756.2	3025.8	3207.4	2338.4
60°	1690.0	1720.2	1921.4	2129.0	2472.1	2754.6	2861.1	2982.6	3207.0	3408.6	2545.5
62.5°	1079.2	1091.0	1373.2	1720.6	2208.3	2735.4	3299.0	3381.5	3482.9	3670.7	2864.7
65°	540.4	578.1	743.6	1026.9	1592.5	2410.4	3520.2	4112.1	3987.9	4119.6	3381.9
67.5°	366.7	378.9	462.6	617.0	933.8	1707.6	3383.1	4727.6	4691.0	4712.6	3933.3
70°	270.4	278.3	344.3	437.0	564.8	969.6	2693.3	4681.2	4930.7	4922.9	3875.5
72.5°	197.3	201.2	251.1	333.7	418.6	501.5	1644.8	3781.6	4304.3	4531.0	3389.3
75°	143.4	148.2	174.5	249.6	325.4	312.8	812.0	2731.4	3282.4	3718.7	2761.3
77.5°	106.9	112.8	125.0	156.4	227.9	224.0	351.0	1773.7	2123.1	2428.8	1677.4
80°	77.0	78.2	85.3	100.2	144.6	131.3	167.0	924.8	1060.3	1161.7	657.5
82.5°	46.8	47.9	57.0	61.7	89.6	82.5	86.9	299.5	429.2	455.5	245.6
85°	13.8	14.5	25.9	28.3	37.3	35.4	35.0	121.8	145.4	185.9	96.7
87.5°	0.0	0.0	0.0	0.0	0.4	2.4	4.3	21.6	32.6	45.2	23.6
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°	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3	634.3
2.5°	641.0	632.0	627.2	619.0	613.1	607.2	601.3	595.8	593.4	589.9	590.7
5°	652.4	638.3	624.1	608.0	594.2	582.8	572.6	563.6	559.7	556.1	557.7
7.5°	669.7	648.5	621.4	591.9	570.3	554.5	543.9	537.6	535.7	532.9	532.9
10°	691.7	659.9	612.3	570.3	544.3	531.7	527.0	526.6	528.6	529.0	528.2
12.5°	716.1	670.9	599.0	544.7	522.7	518.8	522.3	529.0	535.7	539.2	538.4
15°	741.2	677.9	576.2	520.3	507.0	512.1	523.5	536.9	549.8	556.5	556.1
17.5°	764.8	679.5	546.7	496.8	493.2	506.2	525.9	546.7	564.4	573.8	574.2
20°	791.1	676.8	516.4	475.5	479.5	500.7	526.6	551.8	572.6	582.1	584.4
22.5°	815.1	667.3	486.9	455.5	467.7	494.0	520.3	543.9	562.4	571.4	574.6
25°	836.7	649.3	454.7	438.6	458.6	484.6	504.6	521.1	534.1	539.6	543.9
27.5°	848.5	622.1	430.3	425.2	450.0	471.2	482.2	487.3	491.7	490.1	493.2
30°	850.9	588.3	409.1	414.6	437.0	452.8	455.1	450.0	442.5	430.3	433.1
32.5°	848.5	549.4	391.4	403.2	422.5	431.9	428.8	415.4	397.3	378.5	379.7
35°	849.3	510.1	376.9	390.7	405.6	410.7	402.8	384.4	365.1	347.8	347.0
37.5°	857.9	477.1	364.7	378.5	389.1	389.9	381.2	362.0	352.1	339.2	337.6
40°	881.9	452.8	353.7	366.3	373.0	372.6	362.8	349.0	355.7	351.4	350.2
42.5°	921.2	437.8	344.7	353.3	358.0	358.8	351.0	342.3	356.9	351.4	349.4
45°	984.5	437.0	338.4	340.3	347.8	353.3	347.8	338.0	343.5	316.8	311.7
47.5°	1059.6	450.4	333.7	329.0	341.9	351.7	343.1	327.4	316.0	291.6	288.1
50°	1150.0	477.5	329.3	316.8	333.3	345.9	337.2	315.6	298.3	285.3	283.4
52.5°	1257.2	513.3	323.8	303.0	320.3	342.7	337.2	314.4	291.6	279.8	277.9
55°	1369.7	554.5	317.6	286.5	305.8	343.5	340.0	306.2	286.5	280.2	278.6
57.5°	1509.2	604.1	306.2	267.2	292.8	336.4	329.0	301.4	283.0	277.9	276.3
60°	1690.3	677.6	284.5	247.6	277.9	323.8	319.1	293.6	273.5	269.2	268.0
62.5°	1977.2	802.1	258.2	228.7	260.2	297.5	304.6	278.6	261.7	261.4	261.0
65°	2444.9	951.9	227.2	211.8	241.7	275.9	285.3	263.3	249.6	253.9	253.5
67.5°	2772.7	964.8	201.6	194.1	220.1	252.3	266.1	247.6	232.7	240.9	240.5
70°	2539.7	752.6	179.6	175.7	196.9	226.8	245.2	227.9	213.0	220.9	219.3
72.5°	2141.9	576.9	158.8	156.4	173.3	200.0	218.5	208.3	192.6	192.6	189.0
75°	1721.4	475.9	136.8	135.6	147.0	172.9	193.8	176.5	161.9	161.1	158.8
77.5°	987.2	312.1	114.8	114.0	117.5	144.6	150.5	147.0	136.0	130.9	129.3
80°	393.4	162.3	90.4	85.3	88.8	106.1	118.7	112.8	103.4	97.1	93.5
82.5°	152.5	81.4	63.7	55.8	60.9	76.6	86.1	84.1	77.8	63.7	59.7
85°	62.1	39.7	38.1	32.2	35.4	41.3	49.5	42.8	35.4	25.2	24.0
87.5°	16.5	14.5	14.1	8.6	6.7	2.0	0.4	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)