

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: P633051

Luminaire Tested: GWS-SA2D-830-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III 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: 5727.7 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

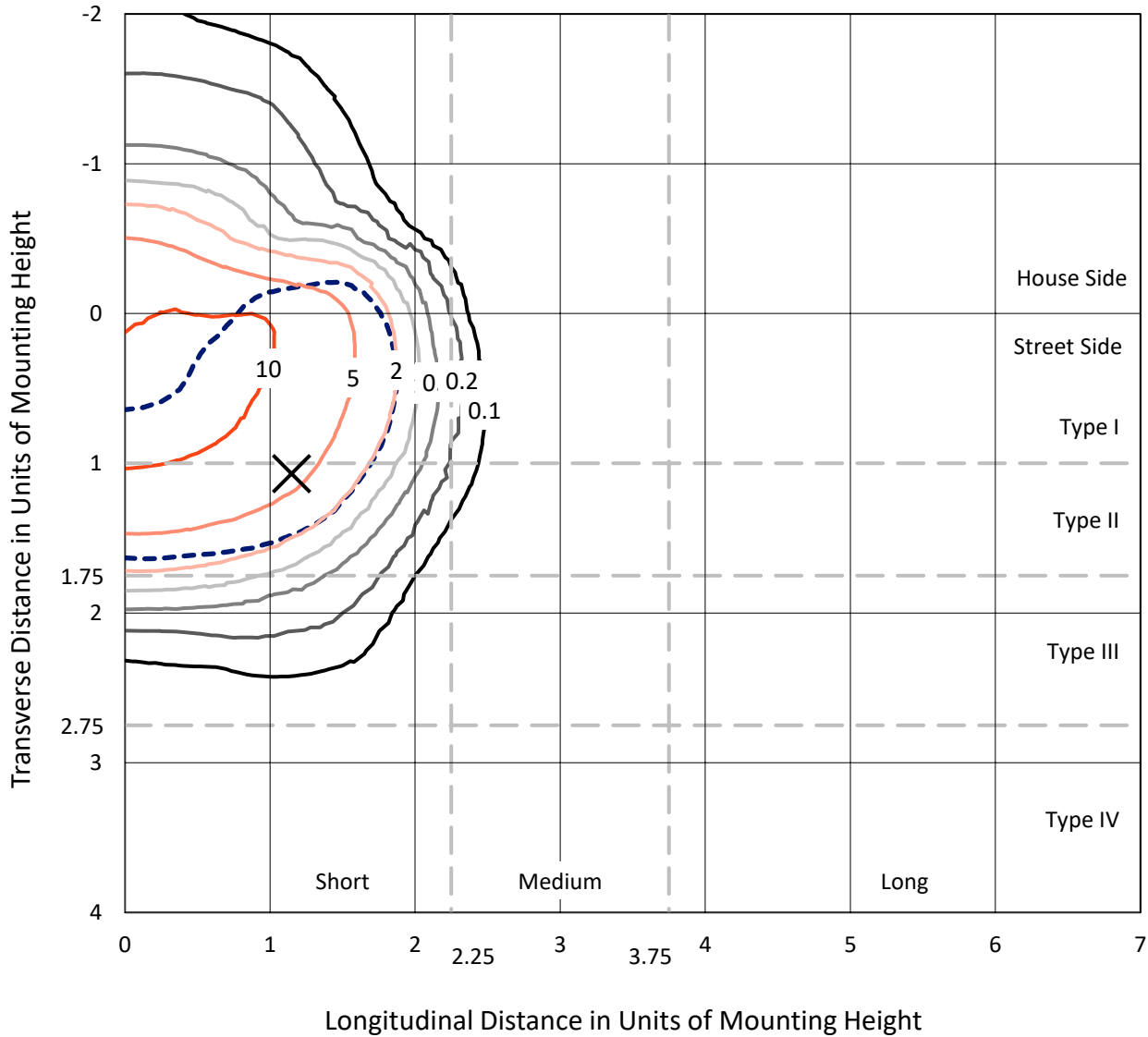
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

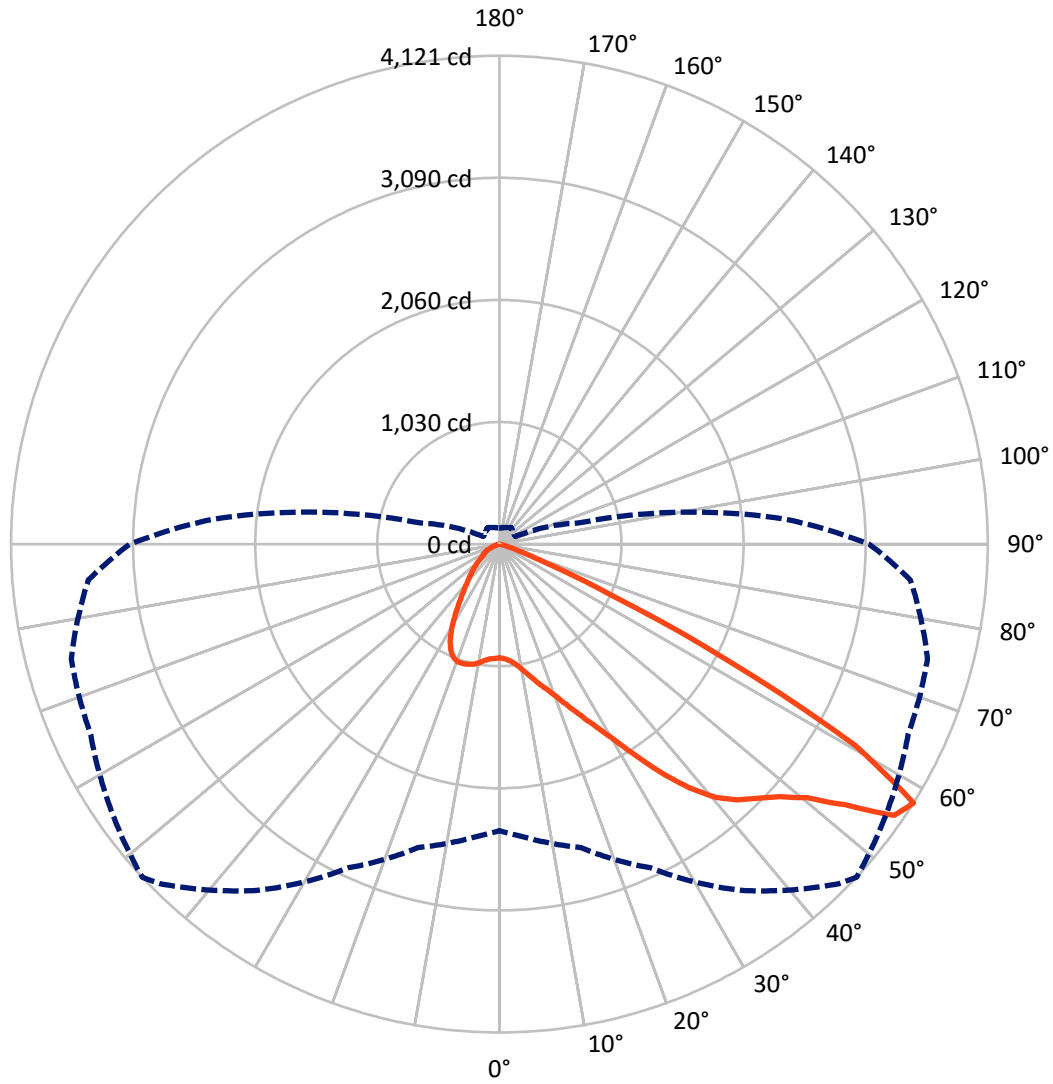
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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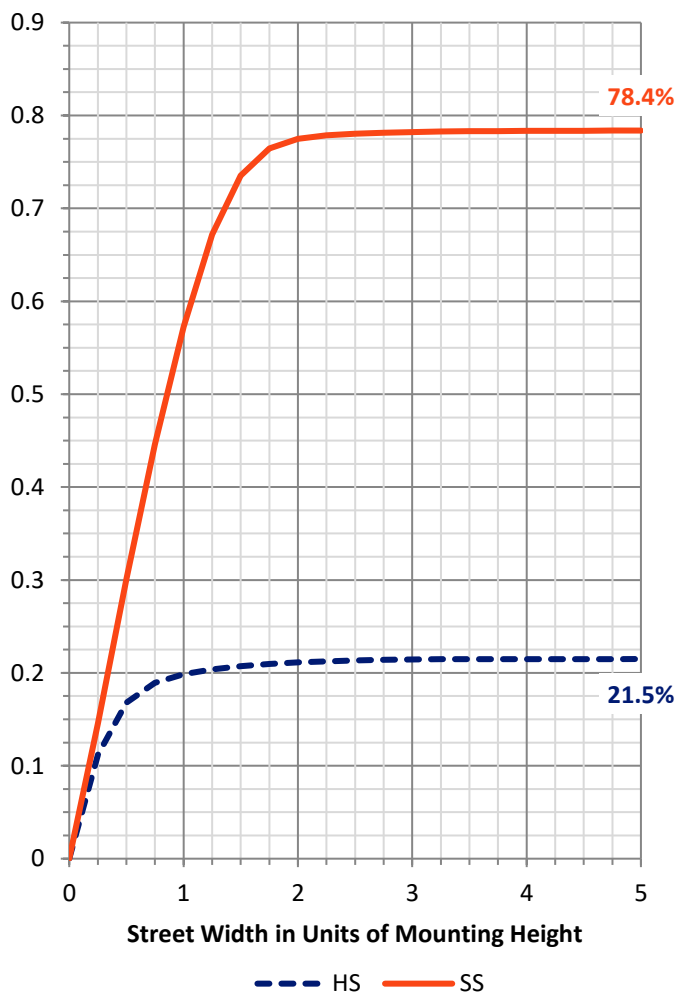
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1242.6	0.0	1242.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	4485.1	0.0	4485.1
	% Fixture	78.3	0.0	78.3
Total	Lumens	5727.7	0.0	5727.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.4	1.7
10°-20°	321.9	5.6
20°-30°	597.6	10.4
30°-40°	956.7	16.7
40°-50°	1398.5	24.4
50°-60°	1726.0	30.1
60°-70°	576.7	10.1
70°-80°	53.7	0.9
80°-90°	1.1	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°	5727.7	100.0
0°-180°	5727.7	100.0

Coefficient of Utilization



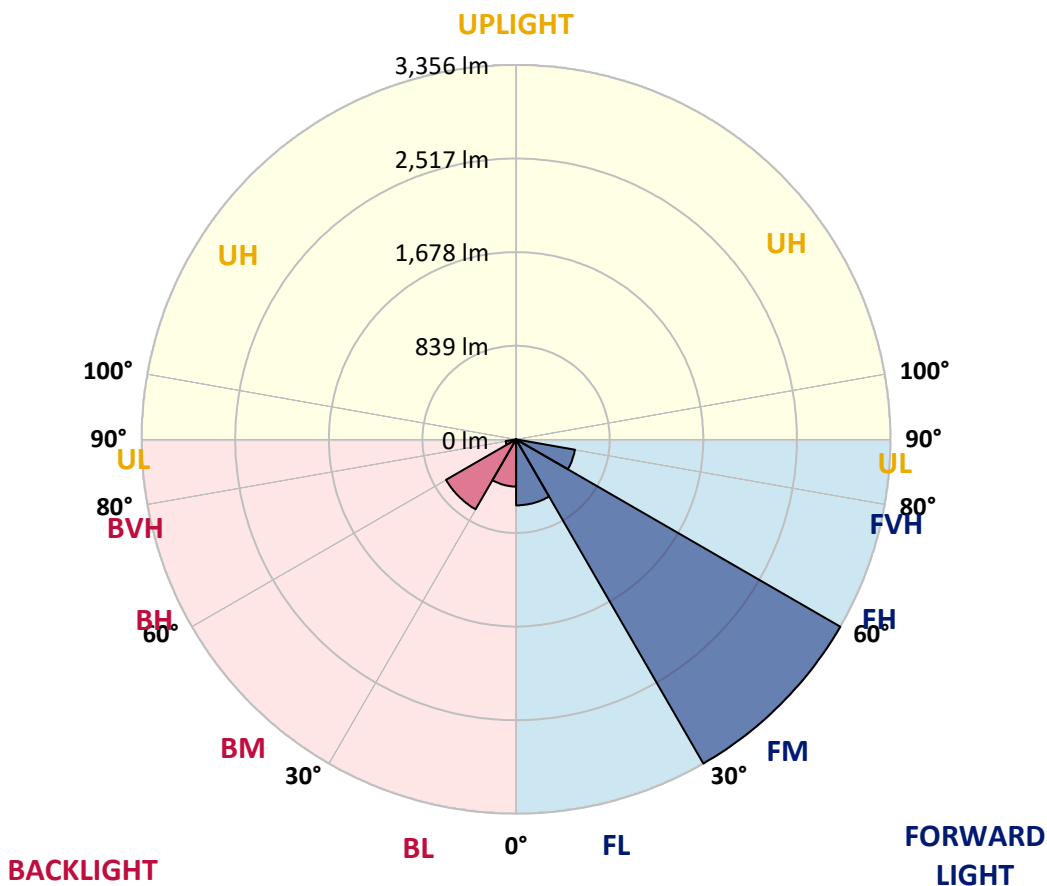
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.9	10.3			
FM (30°-60°)	3356.4	58.6			
FH (60°-80°)	536.0	9.4			G0/660
FVH (80°-90°)	0.8	0.0			G0/10
BL (0°-30°)	423.0	7.4	B1/500		
BM (30°-60°)	724.8	12.7	B1/1000		
BH (60°-80°)	94.5	1.6	B0/110		G0/110
BVH (80°-90°)	0.4	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°	47°	55°	65°	75°	85°
0°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8
2.5°	968.8	968.1	967.5	971.5	970.1	969.5	970.8	970.8	970.8	966.8	958.8
5°	992.1	992.1	991.4	995.4	992.1	990.1	990.7	990.7	988.1	980.8	970.8
7.5°	1028.6	1027.3	1026.0	1030.0	1026.6	1026.0	1027.3	1023.3	1018.7	1006.7	992.7
10°	1081.2	1081.2	1079.2	1083.2	1080.5	1079.2	1079.2	1076.5	1067.9	1049.3	1028.6
12.5°	1153.6	1150.3	1145.7	1142.3	1141.0	1140.3	1141.0	1137.0	1127.7	1103.8	1075.2
15°	1232.8	1230.1	1222.8	1217.5	1210.2	1208.8	1212.8	1209.5	1200.2	1167.6	1127.0
17.5°	1332.5	1335.8	1317.2	1305.9	1284.6	1283.3	1284.6	1290.0	1283.3	1241.4	1182.2
20°	1417.6	1420.3	1406.3	1398.3	1379.1	1370.4	1373.1	1381.7	1374.4	1325.2	1242.7
22.5°	1508.7	1512.0	1497.4	1480.8	1472.1	1472.1	1482.1	1494.1	1484.1	1419.6	1311.9
25°	1617.8	1620.4	1608.5	1586.5	1571.2	1590.5	1605.1	1637.0	1620.4	1532.7	1393.7
27.5°	1742.8	1743.4	1726.1	1703.5	1695.6	1731.5	1746.1	1795.3	1788.7	1659.7	1480.1
30°	1876.4	1877.1	1873.1	1857.8	1850.5	1897.7	1917.6	1988.8	1984.1	1817.2	1597.8
32.5°	2015.4	2015.4	2022.7	2021.4	2030.0	2107.2	2139.1	2220.2	2215.5	2010.1	1744.1
35°	2155.0	2155.7	2168.3	2200.2	2236.1	2338.5	2380.4	2478.8	2468.2	2240.8	1930.9
37.5°	2313.9	2307.3	2324.6	2372.5	2452.2	2570.6	2610.5	2704.3	2692.3	2476.8	2175.0
40°	2505.4	2493.5	2493.5	2549.3	2639.8	2776.1	2810.0	2856.5	2816.0	2667.7	2414.3
42.5°	2716.9	2705.6	2691.0	2740.2	2816.0	2922.3	2950.3	2937.6	2904.4	2847.9	2687.0
45°	2931.0	2913.7	2923.7	2953.6	2997.5	3048.0	3058.7	3000.1	2984.9	3000.8	2912.4
47.5°	3093.9	3081.9	3106.5	3148.4	3184.3	3191.6	3184.3	3103.2	3101.9	3158.4	3068.6
50°	3148.4	3149.8	3217.6	3309.3	3367.2	3373.2	3363.2	3270.1	3257.5	3274.1	3153.1
52.5°	3153.7	3159.1	3258.1	3433.0	3590.6	3662.4	3654.4	3554.0	3430.4	3412.4	3280.7
55°	3025.4	3056.7	3195.0	3450.3	3785.4	4014.8	4041.4	3849.3	3665.7	3650.4	3555.4
57.5°	2418.3	2482.2	2649.1	3012.8	3568.0	4051.4	4120.5	3982.2	3804.7	3739.5	3481.6
60°	1445.5	1524.7	1684.9	2131.1	2715.6	3329.9	3449.0	3468.3	3386.5	3198.3	2671.0
62.5°	620.4	613.7	811.2	1153.0	1615.1	2116.5	2170.3	2254.1	2325.2	2128.4	1621.1
65°	212.8	231.4	321.8	520.0	808.5	982.8	1030.6	1105.8	1206.8	996.1	593.8
67.5°	131.7	139.6	185.5	307.2	436.2	429.5	408.3	396.3	385.7	264.0	162.9
70°	95.7	102.4	130.3	211.4	293.2	206.1	178.9	145.0	160.9	148.3	115.7
72.5°	64.5	69.8	89.8	128.3	150.3	100.4	93.1	105.7	127.7	121.7	94.4
75°	38.6	41.9	51.2	62.5	61.2	51.9	52.5	74.5	97.7	91.1	67.2
77.5°	26.6	27.9	33.9	40.6	29.9	16.0	14.6	20.6	33.2	33.2	22.6
80°	6.6	8.6	8.6	5.3	4.7	4.0	4.0	6.0	9.3	6.6	3.3
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
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°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8
2.5°	963.5	955.5	960.8	959.5	963.5	964.8	958.8	957.5	958.2	950.2	947.5
5°	972.8	963.5	966.1	963.5	968.1	972.1	970.1	972.8	976.1	970.1	967.5
7.5°	992.7	983.4	982.8	978.8	985.4	988.1	987.4	994.7	1001.4	997.4	993.4
10°	1027.3	1014.7	1013.3	1010.0	1012.0	1014.0	1006.7	1008.0	1014.0	1009.4	1007.4
12.5°	1069.9	1054.6	1051.2	1043.3	1043.3	1033.3	1017.3	1014.0	1018.7	1015.3	1012.0
15°	1115.7	1095.1	1089.8	1075.9	1062.6	1043.9	1027.3	1023.3	1026.6	1022.7	1020.0
17.5°	1166.9	1143.7	1126.4	1101.8	1072.5	1050.6	1032.0	1023.3	1018.0	1010.0	1009.4
20°	1217.5	1186.9	1157.6	1118.4	1079.8	1046.6	1016.0	993.4	974.1	962.1	957.5
22.5°	1276.0	1230.8	1183.6	1128.4	1073.2	1022.7	968.8	930.2	897.0	885.7	880.4
25°	1338.5	1280.0	1209.5	1137.7	1050.6	969.5	896.3	839.1	795.3	780.6	774.6
27.5°	1407.6	1327.2	1236.1	1135.7	1004.0	893.7	796.6	725.4	682.2	668.9	673.6
30°	1495.4	1388.4	1269.3	1115.1	934.2	787.3	673.6	613.7	581.1	568.5	569.2
32.5°	1612.4	1476.1	1317.9	1071.2	844.5	666.3	566.5	522.6	500.7	484.1	482.7
35°	1780.0	1609.8	1363.1	1000.7	735.4	558.5	486.1	451.5	420.9	401.6	404.9
37.5°	1980.8	1778.0	1387.7	905.6	613.1	474.8	425.6	390.3	355.7	327.1	330.5
40°	2218.9	1998.1	1385.7	780.6	501.4	417.6	375.0	333.8	290.6	264.6	267.3
42.5°	2484.2	2206.2	1342.5	648.3	415.6	371.0	326.5	274.6	232.7	216.8	217.4
45°	2714.2	2375.1	1266.7	511.3	349.8	325.8	275.9	222.8	204.1	192.8	192.2
47.5°	2884.4	2498.8	1158.3	402.3	296.6	284.6	226.7	199.5	184.8	175.5	174.2
50°	2979.5	2542.0	1038.6	315.2	250.7	241.4	202.8	180.9	170.9	164.9	163.6
52.5°	3107.2	2593.9	952.8	248.7	210.1	197.5	186.8	168.2	161.6	156.9	154.9
55°	3309.3	2694.3	878.4	197.5	174.9	172.2	176.2	160.9	156.9	149.6	146.9
57.5°	3119.2	2420.3	682.2	152.9	147.6	157.6	170.2	153.6	143.6	137.0	134.3
60°	2194.9	1609.1	343.1	123.0	131.7	147.6	160.2	139.0	129.0	130.3	129.0
62.5°	1210.2	805.2	154.3	103.1	114.4	130.3	137.0	120.4	113.7	125.0	127.0
65°	395.6	273.9	89.1	79.8	90.4	106.4	118.4	114.4	113.0	126.3	130.3
67.5°	121.7	90.4	60.5	57.2	62.5	78.5	99.7	123.7	133.0	137.0	139.0
70°	91.1	71.1	51.9	48.5	51.2	59.8	84.4	103.1	97.1	97.7	96.4
72.5°	73.1	56.5	44.6	42.6	42.6	41.2	44.6	55.9	63.2	66.5	66.5
75°	51.2	39.9	33.9	31.3	24.6	19.9	18.0	18.0	16.0	15.3	14.6
77.5°	17.3	14.6	13.3	10.6	7.3	6.0	5.3	4.7	3.3	2.0	1.3
80°	2.7	2.0	1.3	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0
82.5°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.0	0.0
85°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	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)