

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: P631845

Luminaire Tested: GWS-SA2B-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4328.4 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

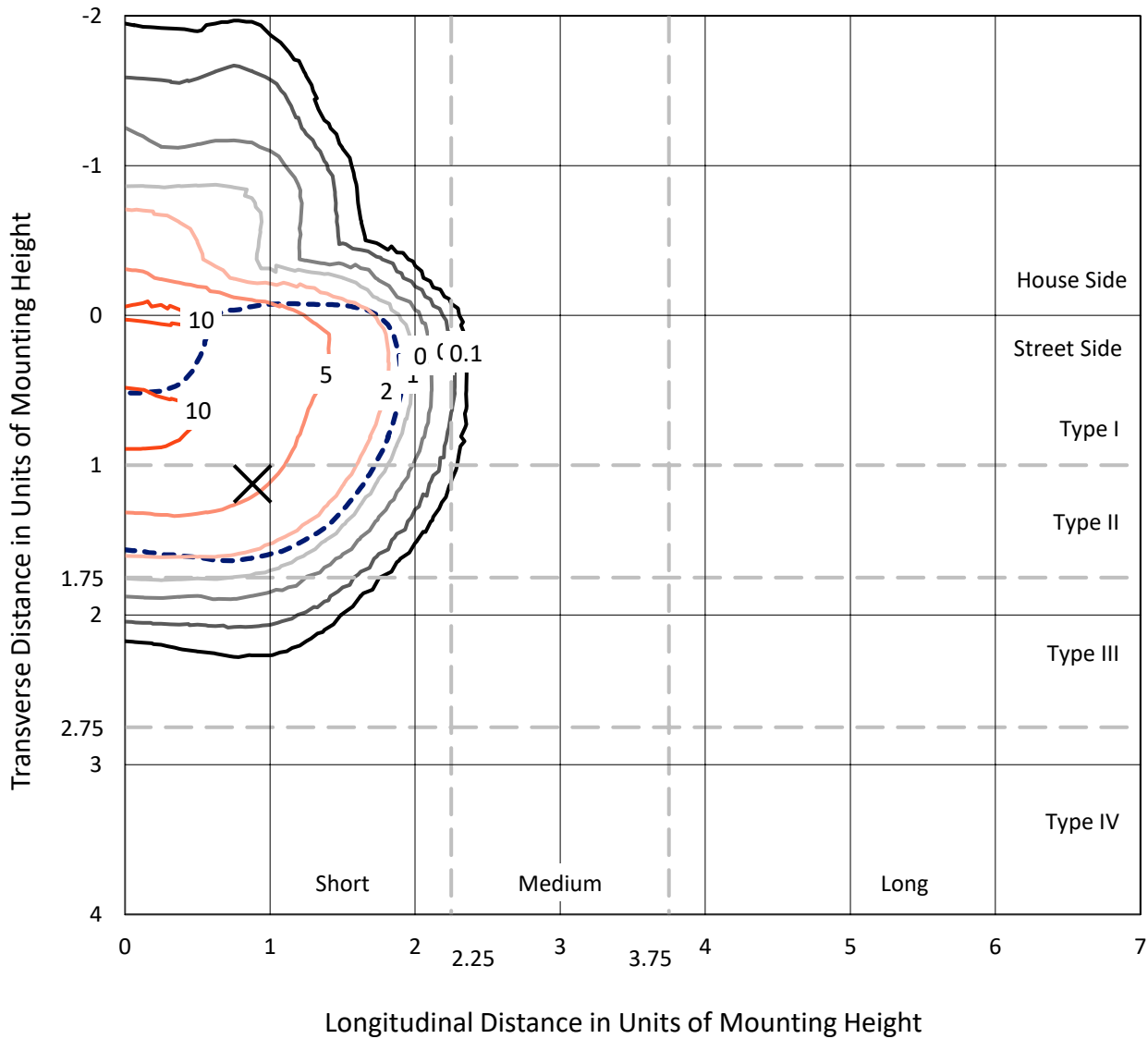
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

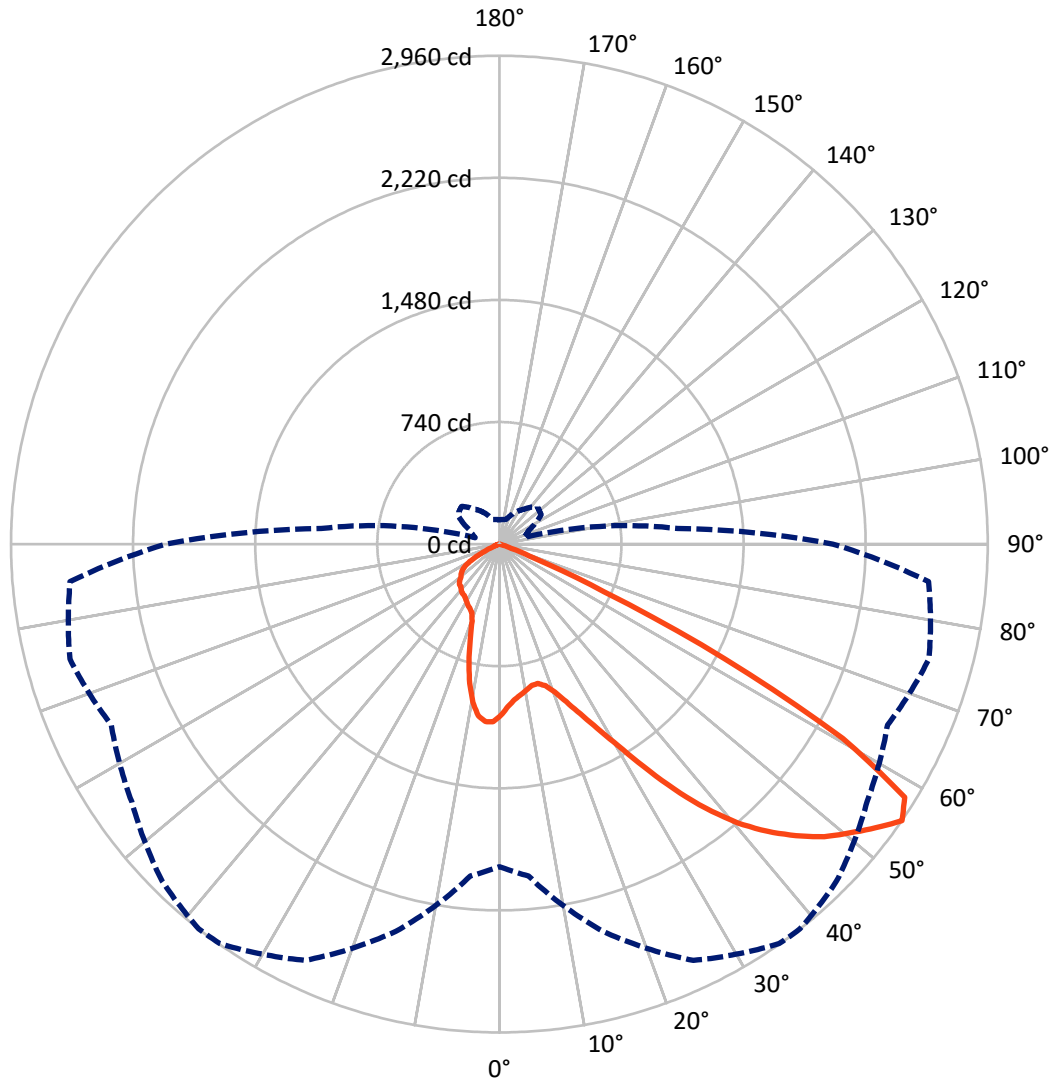
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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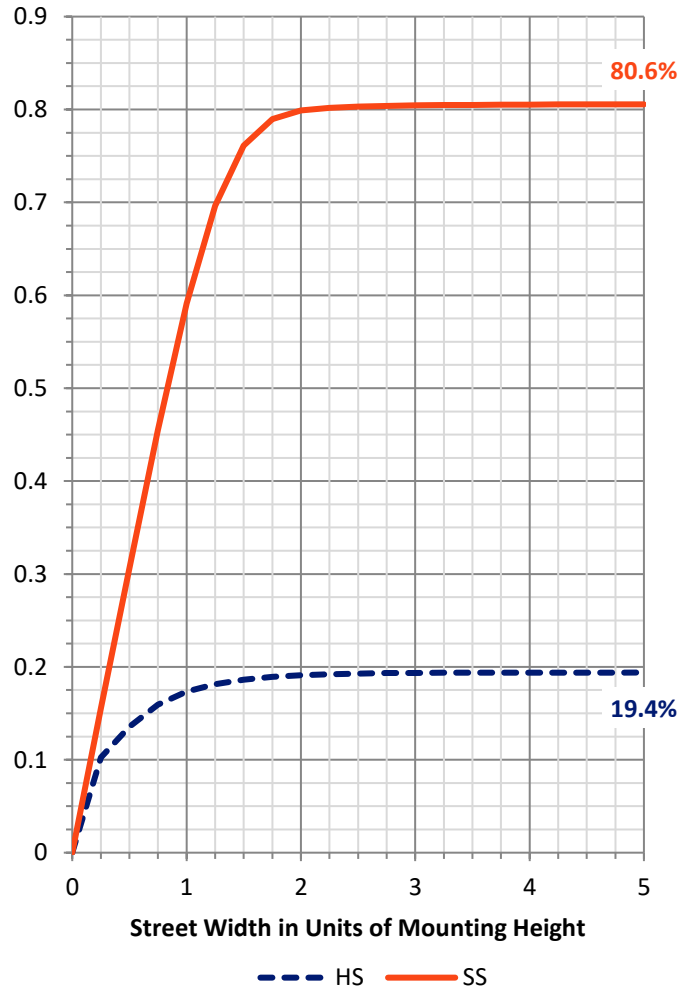
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	843.3	0.0	843.3
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	3485.1	0.0	3485.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	4328.4	0.0	4328.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	2.2
10°-20°	258.4	6.0
20°-30°	443.4	10.2
30°-40°	735.4	17.0
40°-50°	1081.1	25.0
50°-60°	1263.3	29.2
60°-70°	428.2	9.9
70°-80°	21.9	0.5
80°-90°	0.9	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°	4328.4	100.0
0°-180°	4328.4	100.0

Coefficient of Utilization



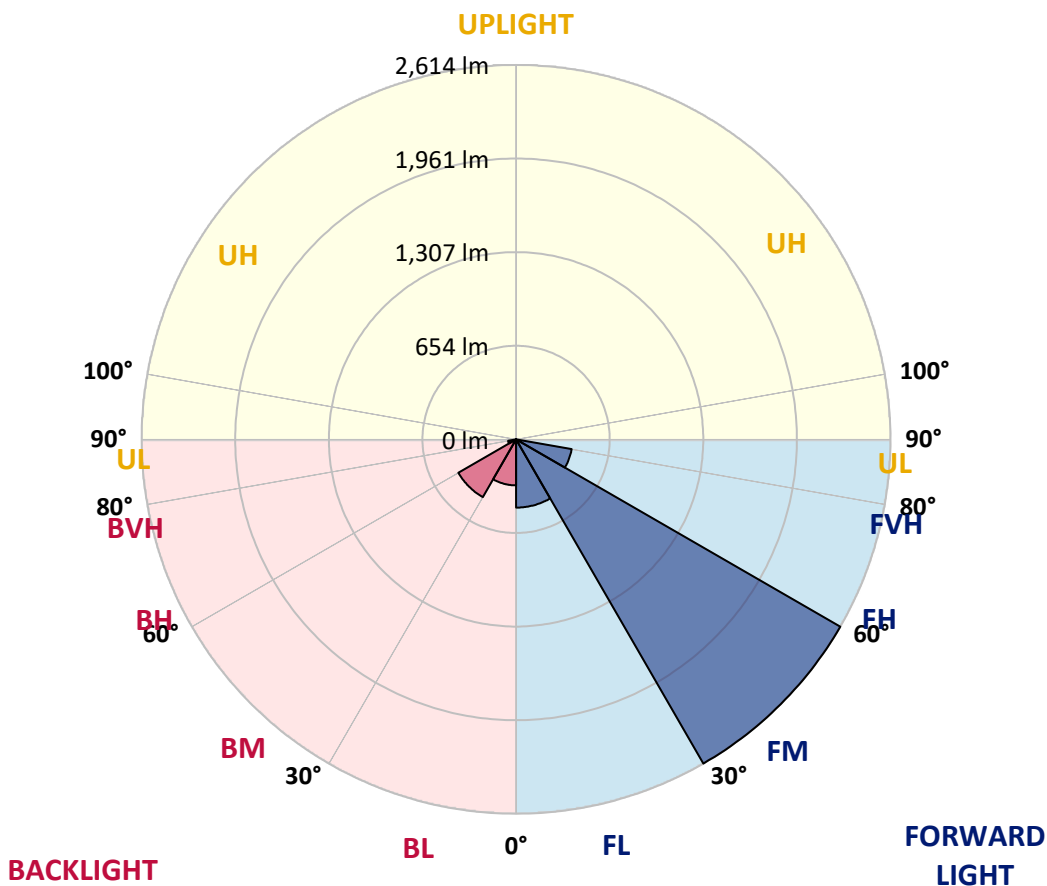
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	476.4	11.0			
FM (30°-60°)	2614.2	60.4			
FH (60°-80°)	394.0	9.1			G0/660
FVH (80°-90°)	0.5	0.0			G0/10
BL (0°-30°)	321.3	7.4	B1/500		
BM (30°-60°)	465.5	10.8	B1/1000		
BH (60°-80°)	56.2	1.3	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°	38°	45°	55°	65°	75°	85°
0°	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0
2.5°	966.7	964.8	968.7	976.6	984.1	986.5	994.0	1004.3	1010.8	1026.1	1038.5
5°	923.2	922.2	926.2	933.1	943.0	946.5	957.8	975.2	992.5	1019.2	1045.4
7.5°	883.6	883.1	889.1	904.4	918.7	923.2	937.1	958.3	981.6	1022.6	1061.2
10°	831.7	832.2	843.5	865.3	891.5	900.4	922.7	953.4	983.6	1036.5	1089.9
12.5°	814.9	815.8	821.8	838.6	867.3	878.7	909.8	956.3	994.9	1056.3	1127.0
15°	855.9	855.9	851.0	852.9	865.8	876.2	908.9	966.2	1014.2	1080.0	1163.6
17.5°	935.6	932.6	920.2	903.4	899.0	902.4	928.6	987.5	1041.4	1107.7	1205.2
20°	1043.4	1044.4	1020.2	985.0	956.8	956.3	972.2	1025.1	1080.5	1140.9	1250.2
22.5°	1174.0	1170.1	1137.9	1089.9	1041.0	1037.0	1043.4	1082.5	1136.9	1193.3	1305.6
25°	1325.4	1323.5	1277.9	1213.6	1148.8	1139.4	1139.4	1178.0	1217.6	1268.0	1371.9
27.5°	1483.8	1483.8	1439.7	1365.5	1279.4	1262.6	1260.1	1305.6	1331.9	1341.8	1427.8
30°	1646.5	1644.5	1601.0	1524.8	1432.8	1415.5	1408.6	1442.2	1461.0	1431.3	1497.6
32.5°	1811.8	1815.2	1771.2	1700.5	1618.3	1606.9	1585.7	1585.7	1601.0	1559.4	1607.4
35°	1989.4	1988.4	1953.8	1905.8	1835.5	1822.7	1787.5	1732.6	1755.9	1737.6	1759.3
37.5°	2146.2	2153.6	2136.8	2101.2	2044.3	2031.4	1973.6	1874.1	1891.9	1920.6	1939.9
40°	2305.5	2311.5	2328.3	2316.9	2245.2	2221.4	2118.5	1955.2	1975.0	2073.5	2128.9
42.5°	2461.9	2464.8	2499.0	2517.8	2421.8	2380.2	2228.3	2004.7	2025.5	2193.2	2290.2
45°	2561.3	2567.7	2624.1	2681.5	2577.6	2520.7	2323.8	2068.1	2077.0	2276.3	2409.4
47.5°	2557.4	2572.2	2678.1	2782.5	2711.7	2650.4	2438.6	2169.5	2154.6	2354.5	2488.1
50°	2477.7	2495.5	2647.4	2813.1	2808.2	2751.3	2566.3	2316.4	2269.9	2423.8	2498.0
52.5°	2312.5	2363.9	2593.5	2817.1	2885.9	2857.2	2724.1	2514.3	2425.8	2523.2	2513.8
55°	1955.2	2018.6	2429.7	2783.5	2956.1	2959.6	2889.8	2720.6	2595.0	2694.4	2611.3
57.5°	1484.2	1534.7	1870.2	2477.7	2839.9	2896.8	2954.1	2829.5	2699.4	2811.2	2634.0
60°	894.5	952.9	1171.1	1818.2	2293.7	2390.6	2615.7	2591.5	2434.7	2482.7	2160.1
62.5°	362.7	393.3	540.8	1001.9	1443.7	1534.2	1749.9	1786.5	1747.9	1699.0	1310.1
65°	132.6	145.0	216.7	414.1	664.0	697.1	810.9	875.7	929.1	791.1	487.3
67.5°	82.1	90.0	141.0	212.7	241.4	224.6	228.6	272.6	260.2	160.8	87.1
70°	60.9	67.3	110.3	147.4	97.5	75.2	51.0	54.4	49.0	43.0	42.5
72.5°	42.1	48.0	82.6	87.1	37.6	26.7	18.8	26.2	29.7	29.2	30.2
75°	27.7	32.2	51.9	34.1	9.4	7.4	6.4	13.9	17.8	17.8	18.3
77.5°	16.3	18.8	18.3	6.9	2.0	2.0	1.5	2.5	4.0	4.5	5.4
80°	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5
82.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5
85°	0.0	0.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5
87.5°	0.0	0.0	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.5	1.5
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°	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0	1038.0
2.5°	1047.9	1044.4	1058.8	1069.2	1077.6	1081.5	1076.1	1075.6	1075.6	1064.7	1061.7
5°	1060.2	1061.7	1082.0	1090.9	1092.4	1087.5	1075.1	1066.7	1061.7	1050.4	1043.9
7.5°	1084.0	1088.9	1108.2	1106.8	1093.4	1070.6	1038.0	1012.8	996.4	978.6	967.7
10°	1118.1	1127.5	1139.4	1118.6	1076.1	1018.2	950.9	902.9	874.2	853.9	841.6
12.5°	1159.7	1169.1	1165.1	1116.2	1027.6	924.2	837.6	768.3	735.2	716.9	704.0
15°	1201.7	1207.7	1182.0	1086.5	942.0	803.0	706.5	637.7	597.2	582.3	571.4
17.5°	1244.8	1243.3	1184.9	1028.1	827.7	666.4	571.4	524.4	513.1	510.6	509.6
20°	1289.8	1276.5	1173.0	944.5	690.2	531.4	477.4	480.4	501.2	511.1	513.1
22.5°	1341.3	1307.6	1143.4	831.2	549.7	442.8	448.2	477.4	505.6	519.0	521.0
25°	1396.2	1336.3	1093.9	685.7	433.4	407.2	439.3	473.0	503.2	519.5	521.5
27.5°	1432.3	1343.2	1012.8	539.3	372.1	393.3	427.5	459.6	490.8	508.6	511.1
30°	1471.4	1340.3	902.4	415.6	351.3	381.5	411.1	440.3	469.0	488.8	490.8
32.5°	1528.8	1338.3	767.9	337.4	342.9	372.1	393.8	418.1	437.9	449.2	447.7
35°	1604.0	1335.8	611.0	304.3	337.9	364.6	381.9	393.3	371.6	364.6	366.1
37.5°	1700.5	1341.8	478.9	290.4	336.4	362.7	377.5	344.8	311.2	298.3	296.4
40°	1807.3	1357.1	365.1	285.0	341.4	367.6	360.7	306.7	265.2	240.0	234.5
42.5°	1914.7	1373.9	288.9	283.0	349.8	381.5	333.0	279.0	216.7	202.4	200.4
45°	1994.3	1370.9	249.8	279.5	357.2	389.4	325.5	239.5	193.4	187.0	187.5
47.5°	2034.4	1338.3	228.6	271.6	360.2	381.5	307.2	223.1	177.6	184.5	190.5
50°	2013.1	1253.7	208.8	256.3	353.7	371.1	278.0	210.8	169.7	198.4	211.8
52.5°	1987.4	1149.8	187.0	232.5	338.4	356.7	266.7	207.3	164.8	191.5	201.4
55°	2021.5	1084.0	151.4	195.9	308.2	323.1	257.8	206.8	153.4	148.9	147.4
57.5°	1973.6	952.9	108.4	141.0	236.5	255.8	251.3	203.3	136.1	135.6	137.5
60°	1525.3	581.3	74.2	89.5	145.0	163.3	228.1	194.4	117.3	107.9	108.4
62.5°	866.8	247.4	51.0	55.4	74.2	88.1	174.2	176.6	108.4	102.9	108.4
65°	301.8	88.6	39.6	37.1	41.1	47.0	99.9	136.6	98.5	89.1	90.0
67.5°	62.3	44.0	35.1	30.7	30.7	30.7	51.0	85.1	81.1	70.7	71.7
70°	39.6	37.6	30.7	26.2	25.2	23.3	29.2	47.0	55.9	51.5	51.9
72.5°	29.2	28.7	24.2	21.3	18.8	16.8	18.3	23.3	28.7	29.7	30.2
75°	17.8	18.3	15.8	13.4	11.9	10.4	10.9	10.9	10.9	9.9	10.9
77.5°	5.4	5.9	4.9	4.0	3.5	3.5	3.5	3.0	2.5	1.5	1.5
80°	1.5	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.0	0.0
82.5°	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.0	0.0	0.0
85°	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	0.0	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.0	1.0	0.5	0.5	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)