

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: P631840

Luminaire Tested: GWS-SA2B-740-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-740-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7037 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

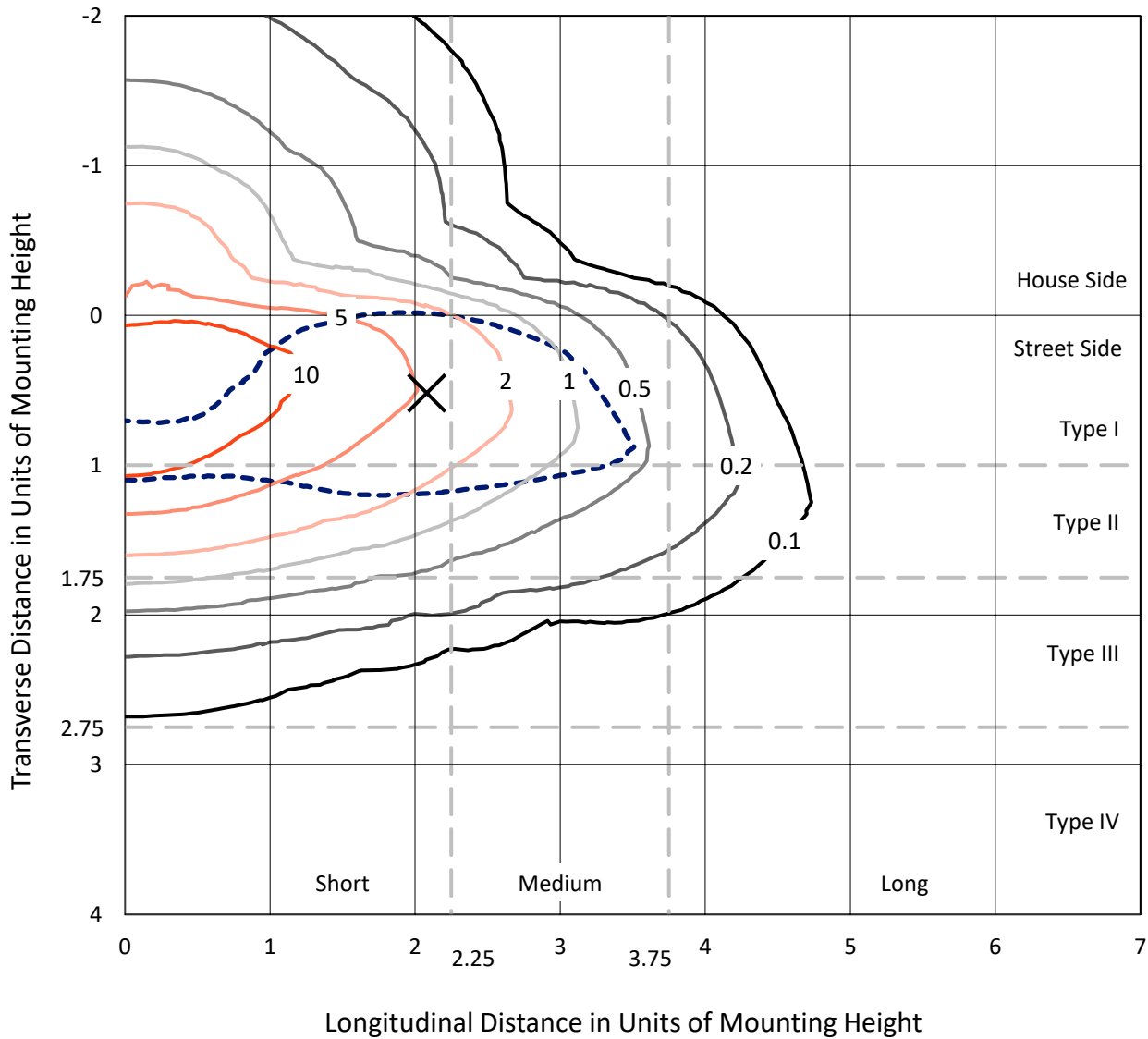


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Iso-Footcandle Lines of Horizontal Illumination

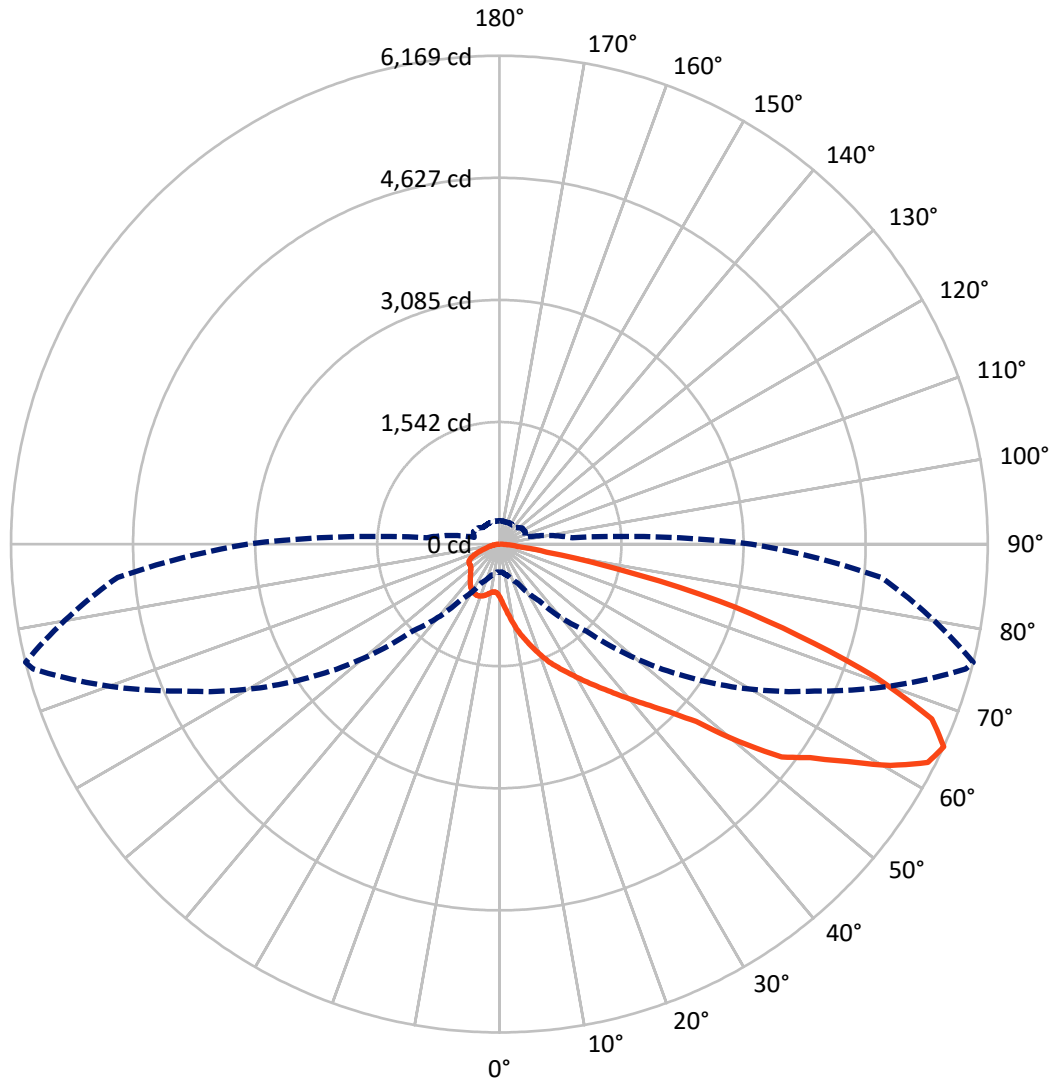
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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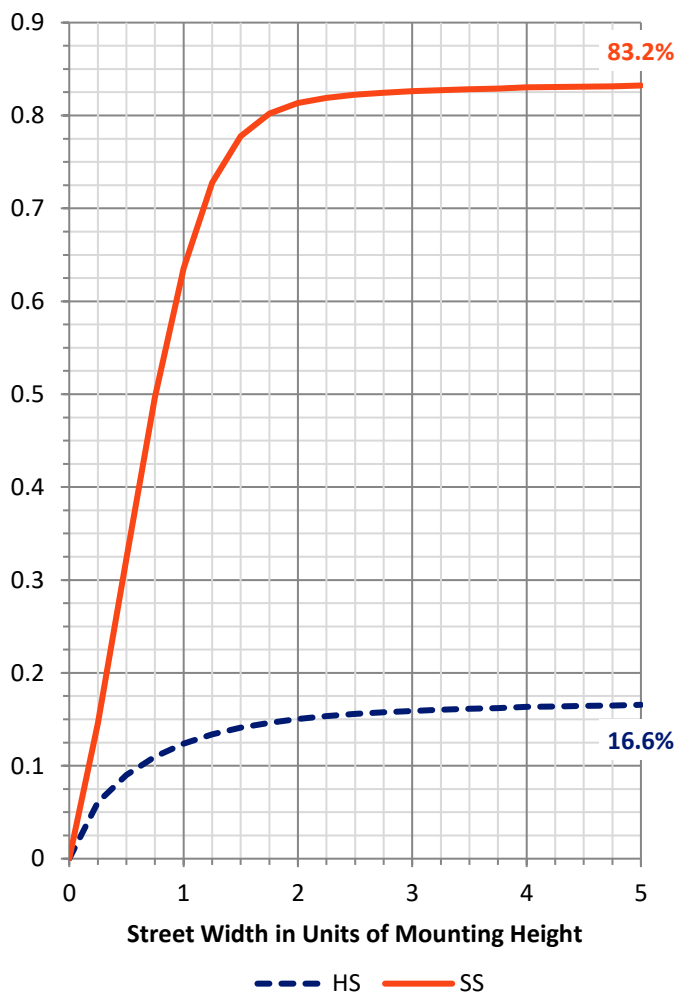
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1176.2	0.0	1176.2
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	5860.8	0.0	5860.8
	% Fixture	83.3	0.0	83.3
Total	Lumens	7037.0	0.0	7037.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	1.1
10°-20°	301.5	4.3
20°-30°	587.7	8.4
30°-40°	982.8	14.0
40°-50°	1407.2	20.0
50°-60°	1666.0	23.7
60°-70°	1385.3	19.7
70°-80°	566.9	8.1
80°-90°	60.4	0.9
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°	7037.0	100.0
0°-180°	7037.0	100.0

Coefficient of Utilization



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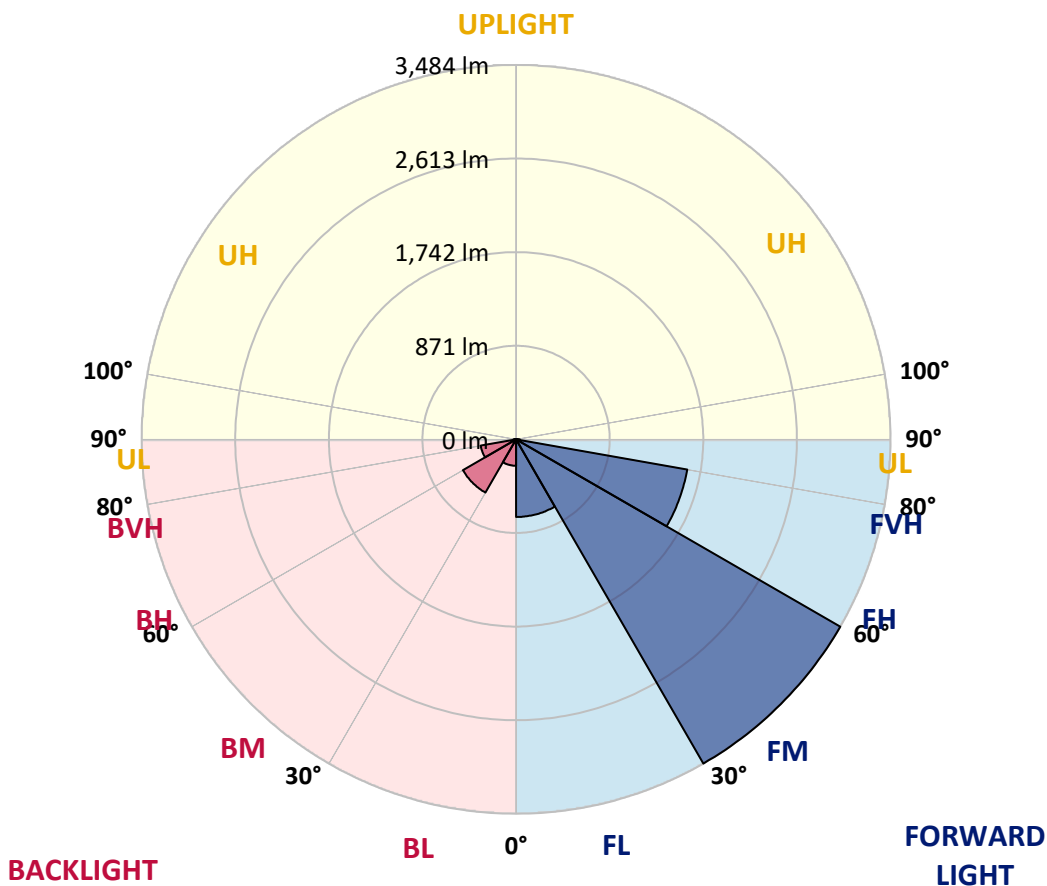
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	722.3	10.3			
FM (30°-60°)	3484.5	49.5			
FH (60°-80°)	1618.0	23.0			G1/1800
FVH (80°-90°)	36.0	0.5			G1/100
BL (0°-30°)	246.1	3.5	B1/500		
BM (30°-60°)	571.6	8.1	B1/1000		
BH (60°-80°)	334.2	4.7	B1/500		G1/500
BVH (80°-90°)	24.4	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°	65°	75°	76°	85°
0°	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4
2.5°	934.0	937.5	926.1	922.1	895.4	859.3	829.1	783.6	741.6	735.1	697.5
5°	1186.3	1171.5	1158.6	1150.2	1113.1	1072.0	1008.2	922.6	833.1	822.2	741.1
7.5°	1336.2	1333.7	1317.9	1313.0	1284.3	1243.2	1177.4	1071.1	940.9	923.1	800.0
10°	1456.4	1454.9	1447.0	1451.5	1425.3	1385.2	1321.4	1211.6	1059.2	1041.4	865.7
12.5°	1561.3	1563.8	1562.3	1578.6	1565.3	1534.1	1467.8	1347.1	1177.4	1158.1	945.9
15°	1638.0	1640.0	1647.4	1683.0	1690.4	1684.0	1616.7	1480.2	1294.2	1266.5	1028.5
17.5°	1659.8	1663.7	1681.5	1738.9	1779.0	1805.7	1755.7	1615.7	1408.9	1378.8	1112.6
20°	1688.9	1693.4	1711.2	1771.1	1829.9	1890.8	1881.9	1753.3	1524.7	1500.0	1197.7
22.5°	1824.0	1820.5	1812.6	1841.3	1883.4	1959.1	1981.3	1885.3	1644.4	1620.7	1291.7
25°	2084.2	2077.8	2027.3	2001.1	1987.3	2033.3	2072.8	2005.6	1761.2	1725.6	1379.3
27.5°	2371.2	2367.7	2303.4	2241.0	2156.0	2136.2	2159.4	2110.4	1874.5	1838.4	1455.4
30°	2642.8	2632.4	2565.1	2486.9	2373.1	2288.0	2253.9	2213.3	1998.6	1961.0	1544.5
32.5°	2885.7	2872.3	2793.1	2706.6	2587.3	2486.9	2385.0	2322.7	2139.1	2095.6	1635.5
35°	3085.0	3071.7	2990.5	2898.5	2767.4	2693.2	2553.7	2441.4	2282.1	2238.1	1742.9
37.5°	3239.4	3227.0	3142.4	3051.9	2937.6	2878.7	2757.5	2575.0	2446.8	2400.8	1856.7
40°	3326.0	3317.0	3249.3	3177.5	3081.6	3030.6	2976.2	2743.7	2631.4	2585.4	1990.7
42.5°	3352.2	3346.2	3298.7	3261.6	3196.8	3158.2	3189.4	2942.1	2828.3	2788.2	2141.6
45°	3286.4	3286.4	3272.5	3291.3	3294.3	3293.8	3403.1	3166.2	3070.2	3026.2	2354.3
47.5°	3118.2	3129.1	3149.3	3241.9	3339.3	3420.9	3653.0	3465.0	3381.4	3345.2	2655.6
50°	2810.5	2840.1	2909.4	3090.0	3297.3	3505.0	3889.4	3906.7	3986.4	3922.6	3098.9
52.5°	2359.8	2355.3	2531.9	2789.2	3105.3	3508.5	4019.5	4296.6	4510.8	4466.8	3428.4
55°	1875.5	1868.0	2032.8	2387.5	2811.0	3375.9	4097.7	4475.2	4801.7	4762.1	3724.7
57.5°	1436.2	1426.8	1573.2	1893.3	2395.4	3094.4	4082.9	4687.9	5201.9	5181.6	4127.4
60°	988.4	977.1	1114.1	1394.1	1903.7	2664.0	3918.6	4797.2	5670.4	5677.3	4558.3
62.5°	593.7	587.2	686.7	903.8	1369.4	2130.7	3534.2	4730.9	6043.4	6074.6	4835.3
65°	358.2	353.7	412.1	539.2	868.7	1554.9	2941.6	4392.1	6097.3	6169.1	4841.8
67.5°	260.7	261.2	278.0	328.5	506.6	1004.3	2207.4	3784.6	5816.3	5890.5	4536.5
70°	226.6	227.6	236.5	247.9	306.2	574.9	1435.2	2987.6	4985.7	5043.1	3804.8
72.5°	201.3	201.3	207.3	213.2	239.4	350.3	768.8	2088.2	3934.9	3950.3	2904.0
75°	177.1	175.6	178.6	181.6	207.8	244.9	374.0	1454.9	2906.4	2870.8	1876.9
77.5°	141.0	139.5	140.0	143.0	166.7	175.1	189.5	908.8	1638.0	1546.0	829.1
80°	100.4	99.4	104.9	112.3	123.2	107.4	118.7	439.8	649.6	604.5	321.6
82.5°	59.9	61.8	70.2	76.2	85.1	67.3	76.7	146.9	230.0	224.1	130.6
85°	8.4	8.9	25.2	29.2	36.6	26.2	40.6	66.3	92.0	98.4	46.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.5	11.9	26.2	26.7	11.4
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°	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4	666.4
2.5°	678.3	655.0	621.9	594.1	570.9	552.1	536.3	524.4	520.9	516.0	516.0
5°	703.0	660.9	601.6	559.5	535.3	520.9	511.0	506.1	503.6	500.6	499.2
7.5°	737.1	678.3	598.1	555.6	536.8	527.9	521.4	518.5	516.5	513.5	513.5
10°	784.1	704.0	609.0	569.4	554.6	545.7	538.2	533.3	528.8	524.4	523.4
12.5°	835.1	737.6	628.8	588.2	572.4	561.5	551.1	543.7	538.2	532.8	531.3
15°	891.5	772.2	650.1	606.5	586.7	571.9	559.5	548.1	540.7	532.8	531.8
17.5°	946.9	807.4	667.9	618.9	593.7	575.4	557.5	542.7	533.3	524.4	521.9
20°	1013.2	842.5	680.2	622.3	592.2	567.9	546.7	527.9	517.5	507.1	505.6
22.5°	1074.0	875.1	686.2	617.4	580.8	552.1	527.4	507.1	495.7	485.3	483.3
25°	1132.9	903.8	683.7	605.5	563.5	530.3	504.6	484.3	473.4	462.6	459.6
27.5°	1189.8	923.1	673.8	587.2	541.7	506.1	481.4	463.1	453.7	444.3	440.3
30°	1245.7	940.9	658.5	563.5	514.0	480.9	460.6	447.7	438.3	428.4	425.5
32.5°	1302.1	953.8	635.2	535.8	485.8	458.6	446.2	436.8	426.9	417.0	414.1
35°	1359.0	959.2	607.0	504.1	462.1	444.3	439.8	428.9	415.6	403.7	399.7
37.5°	1426.8	964.2	571.9	472.9	441.3	437.3	436.3	420.0	404.2	387.9	383.4
40°	1508.4	970.6	535.8	444.7	424.5	434.9	430.9	408.6	377.0	361.1	356.2
42.5°	1608.3	982.5	498.2	419.0	412.1	425.5	421.0	380.9	359.7	350.8	348.3
45°	1755.2	1026.0	460.6	398.7	402.7	412.1	405.2	364.6	356.2	350.3	347.3
47.5°	2016.9	1092.8	427.9	383.4	395.3	400.2	373.5	360.2	353.7	345.8	342.3
50°	2289.0	1122.0	401.7	374.0	386.9	389.3	356.2	354.2	349.8	341.4	337.9
52.5°	2473.1	1118.1	385.9	370.5	379.9	370.5	348.3	347.8	344.8	334.9	331.0
55°	2680.8	1125.0	378.9	371.5	377.0	338.9	338.4	339.9	338.4	327.5	325.5
57.5°	2961.3	1146.2	375.5	375.0	375.0	323.5	329.0	331.0	328.0	323.0	321.6
60°	3231.0	1147.7	369.1	378.9	373.5	314.1	318.1	320.1	316.6	315.6	315.1
62.5°	3332.4	1076.5	354.7	376.0	367.6	303.8	306.7	307.7	304.2	306.7	306.2
65°	3181.5	925.1	331.0	361.6	349.3	294.4	292.4	294.8	288.9	295.3	295.8
67.5°	2824.8	735.1	294.8	334.4	323.5	284.0	280.0	280.0	270.1	280.0	279.5
70°	2277.7	519.4	241.9	290.9	295.3	271.6	269.6	258.2	242.4	257.3	255.8
72.5°	1726.5	373.0	190.5	230.0	254.3	254.3	254.8	235.5	217.2	224.1	218.2
75°	1093.8	262.7	152.4	176.1	199.4	223.1	234.5	198.9	182.5	179.6	176.6
77.5°	492.7	172.7	118.7	135.1	141.5	176.1	214.2	171.2	148.9	142.5	140.5
80°	206.3	107.4	84.6	95.5	87.1	147.9	189.0	133.1	109.3	100.4	94.0
82.5°	90.5	63.8	53.9	51.5	54.4	109.8	141.0	88.6	68.3	92.5	93.5
85°	38.1	33.6	27.7	25.2	22.3	42.1	66.3	34.6	42.5	24.2	19.8
87.5°	8.9	9.9	7.4	4.9	3.0	0.5	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)