

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: P633111

Luminaire Tested: GWS-SA2E-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633111
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9422.9 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

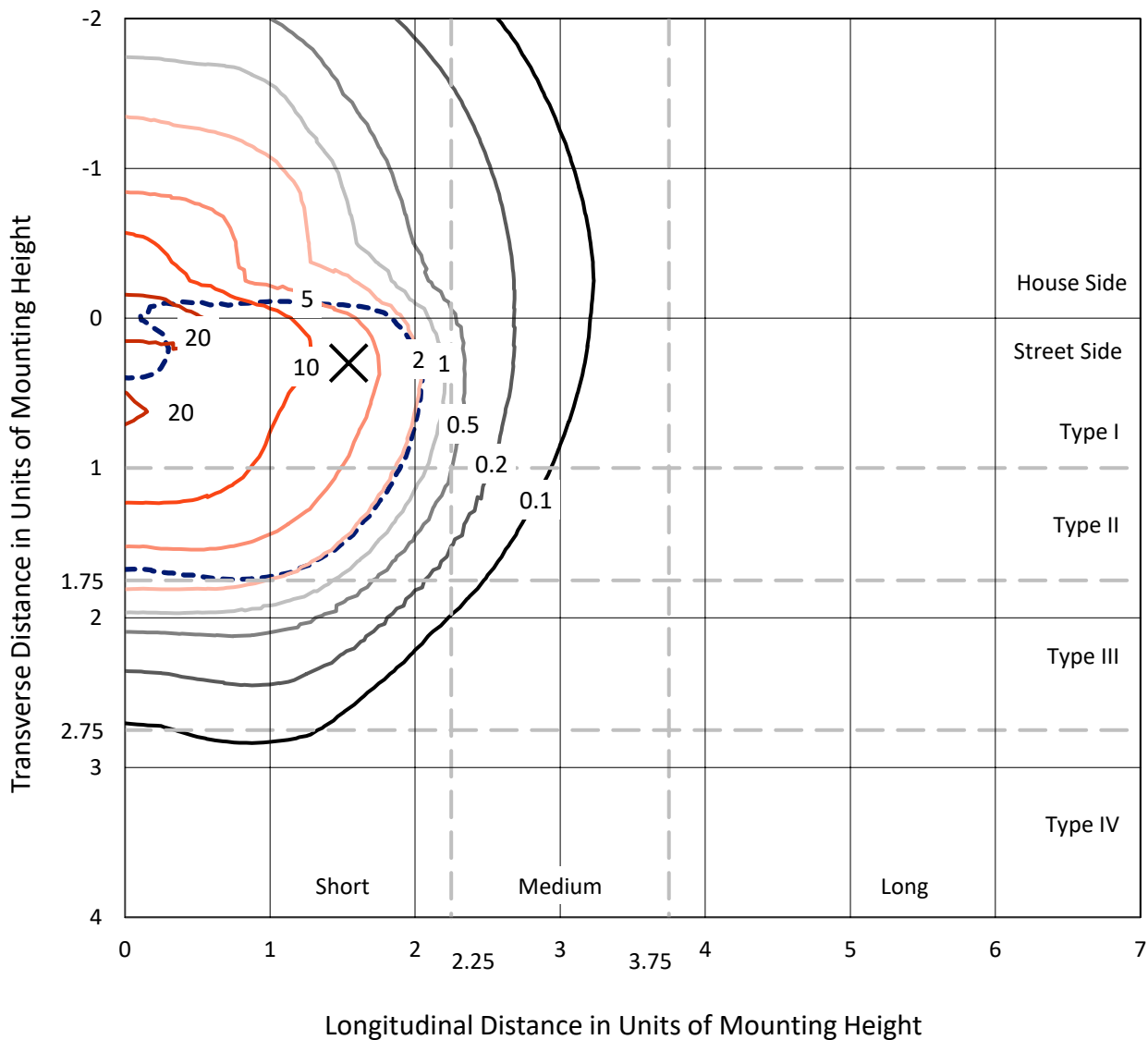
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

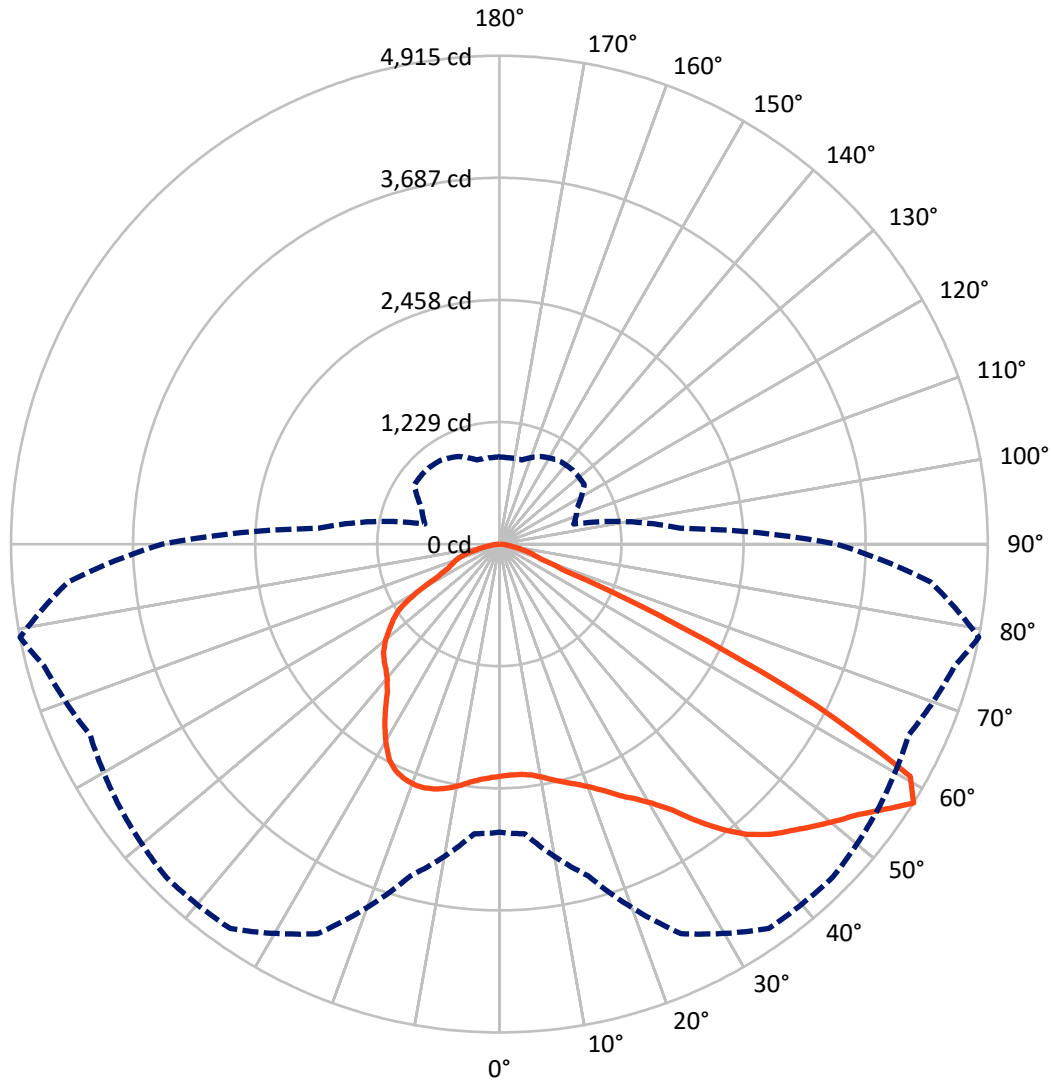
✕ Max cd
 - - - 1/2 Max cd



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 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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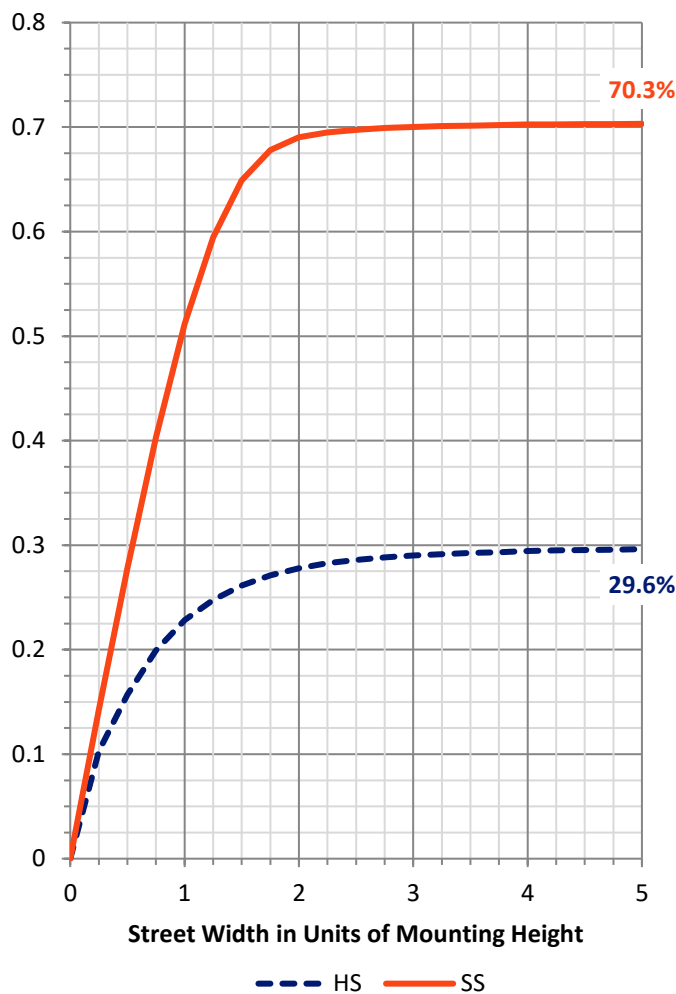
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2801.0	0.0	2801.0
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	6621.9	0.0	6621.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	9422.9	0.0	9422.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	2.3
10°-20°	601.0	6.4
20°-30°	1018.7	10.8
30°-40°	1559.3	16.5
40°-50°	2079.1	22.1
50°-60°	2401.2	25.5
60°-70°	1247.8	13.2
70°-80°	265.2	2.8
80°-90°	34.4	0.4
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°	9422.9	100.0
0°-180°	9422.9	100.0

Coefficient of Utilization



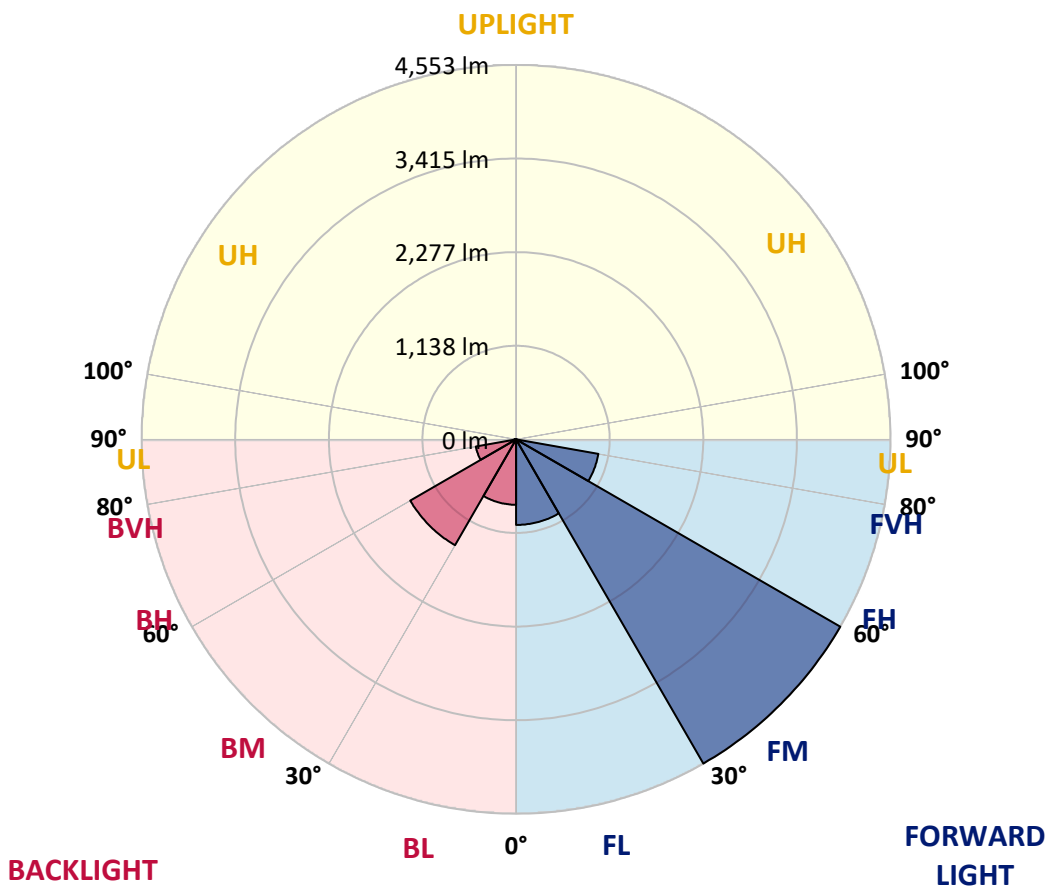
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1040.5	11.0			
FM (30°-60°)	4553.4	48.3			
FH (60°-80°)	1016.0	10.8			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	795.5	8.4	B2/1000		
BM (30°-60°)	1486.2	15.8	B2/2500		
BH (60°-80°)	497.0	5.3	B1/500		G1/500
BVH (80°-90°)	22.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2
2.5°	2228.9	2224.3	2225.8	2232.0	2255.1	2272.0	2289.8	2305.9	2321.3	2326.0	2329.8
5°	2149.5	2141.1	2143.4	2153.4	2180.4	2208.9	2240.4	2279.0	2316.0	2328.3	2344.5
7.5°	2093.3	2091.8	2095.6	2111.0	2139.5	2166.5	2207.3	2262.0	2326.0	2346.8	2375.3
10°	2018.6	2015.5	2030.9	2062.5	2109.5	2152.6	2201.2	2265.9	2355.2	2386.1	2430.0
12.5°	1959.2	1957.7	1973.9	2017.8	2077.9	2146.5	2213.5	2285.9	2394.5	2436.9	2490.8
15°	1993.9	1987.0	1987.7	2018.6	2072.5	2153.4	2244.3	2322.1	2433.8	2487.8	2557.1
17.5°	2094.8	2082.5	2073.3	2078.7	2109.5	2193.5	2291.3	2370.7	2479.3	2542.5	2627.2
20°	2234.3	2227.4	2201.9	2185.0	2191.9	2265.9	2365.3	2439.2	2538.6	2609.5	2700.4
22.5°	2421.5	2404.6	2369.9	2342.9	2322.1	2379.9	2471.6	2535.5	2621.0	2695.0	2789.8
25°	2653.4	2628.8	2574.0	2531.7	2487.0	2546.3	2628.0	2676.5	2734.3	2802.9	2893.0
27.5°	2889.9	2869.1	2808.3	2751.3	2695.8	2732.8	2829.8	2857.6	2851.4	2901.5	2978.5
30°	3141.9	3115.7	3057.9	2996.3	2924.6	2948.5	3035.5	3049.4	2983.9	3025.5	3077.9
32.5°	3407.7	3382.2	3332.2	3260.5	3179.6	3188.9	3212.7	3225.8	3163.4	3187.3	3227.4
35°	3678.1	3654.2	3603.4	3532.5	3473.2	3416.9	3356.8	3409.2	3373.0	3419.2	3416.1
37.5°	3925.4	3901.5	3869.9	3815.2	3713.5	3602.6	3463.9	3528.6	3584.9	3643.4	3633.4
40°	4092.6	4076.4	4084.1	4075.6	3944.7	3725.1	3516.3	3587.2	3740.5	3840.7	3835.3
42.5°	4236.7	4220.5	4265.2	4297.5	4143.4	3838.3	3541.7	3609.5	3839.9	3996.3	3988.6
45°	4300.6	4296.0	4370.0	4472.4	4325.3	3958.5	3607.2	3655.8	3915.4	4115.7	4086.4
47.5°	4224.3	4240.5	4386.1	4559.5	4476.3	4101.1	3741.3	3753.6	4014.0	4245.1	4162.7
50°	4072.6	4108.0	4304.5	4561.8	4586.4	4262.1	3926.9	3896.1	4146.5	4383.0	4202.8
52.5°	3851.4	3888.4	4208.9	4544.1	4649.6	4448.5	4174.3	4130.3	4313.7	4521.0	4209.7
55°	3343.7	3393.8	3990.1	4504.0	4711.3	4618.0	4453.2	4363.8	4529.4	4710.5	4278.3
57.5°	2900.7	2926.9	3457.0	4326.0	4723.6	4742.8	4651.9	4545.6	4743.6	4915.4	4355.3
60°	2128.7	2134.9	2611.8	3579.5	4345.3	4670.4	4635.8	4477.8	4641.9	4751.3	4002.5
62.5°	1202.7	1203.4	1584.0	2389.1	3245.9	3806.8	3828.3	3688.9	3551.0	3583.3	2785.9
65°	451.5	493.9	723.4	1174.2	1871.4	2247.4	2336.8	2369.1	2139.5	1997.0	1493.9
67.5°	302.0	312.0	422.2	604.0	832.8	961.5	1075.5	1078.6	788.9	703.4	588.6
70°	230.4	240.4	332.1	432.2	422.2	389.8	421.4	409.9	423.7	435.3	447.6
72.5°	171.8	181.8	257.3	305.1	253.5	249.6	282.8	314.3	343.6	355.9	375.2
75°	114.0	121.7	173.3	163.3	140.2	165.6	206.5	238.1	255.0	269.7	284.3
77.5°	72.4	77.8	92.5	74.7	77.8	97.1	120.2	148.7	164.9	179.5	187.2
80°	33.1	32.4	31.6	35.4	43.9	57.0	72.4	89.4	101.7	107.9	112.5
82.5°	13.1	14.6	16.2	19.3	23.9	30.8	40.8	52.4	62.4	63.9	67.8
85°	5.4	6.2	6.9	8.5	10.8	13.9	16.9	23.9	30.0	32.4	34.7
87.5°	0.0	0.0	0.0	0.0	0.8	1.5	2.3	3.9	6.9	7.7	8.5
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°	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2	2335.2
2.5°	2350.6	2340.6	2357.6	2369.1	2379.9	2368.3	2364.5	2354.5	2352.9	2352.9	2358.3
5°	2372.2	2365.3	2383.0	2389.9	2389.1	2363.7	2348.3	2328.3	2318.3	2318.3	2319.8
7.5°	2410.7	2406.9	2416.9	2406.1	2381.4	2329.8	2279.0	2236.6	2208.1	2193.5	2198.1
10°	2474.7	2470.0	2461.6	2421.5	2350.6	2243.5	2139.5	2062.5	2016.2	1990.1	1991.6
12.5°	2537.1	2529.4	2499.3	2410.7	2265.1	2094.8	1958.5	1872.2	1821.3	1790.5	1783.6
15°	2605.6	2585.6	2520.9	2355.2	2125.7	1913.0	1770.5	1677.3	1622.6	1604.1	1603.3
17.5°	2671.1	2635.7	2518.6	2256.6	1958.5	1722.7	1579.4	1521.6	1512.4	1520.9	1523.2
20°	2737.4	2680.4	2493.2	2120.3	1759.7	1533.2	1459.2	1483.1	1517.8	1540.9	1546.3
22.5°	2806.0	2717.4	2435.4	1944.6	1550.1	1405.3	1436.1	1488.5	1531.6	1562.5	1565.5
25°	2883.0	2752.0	2349.1	1729.6	1382.2	1369.8	1430.7	1486.2	1532.4	1567.9	1574.0
27.5°	2926.9	2752.8	2228.1	1508.5	1305.1	1356.0	1417.6	1470.0	1516.2	1554.8	1561.7
30°	2970.1	2732.0	2036.3	1329.0	1282.8	1339.8	1395.3	1443.8	1487.7	1525.5	1534.0
32.5°	3030.9	2712.7	1815.2	1225.8	1269.7	1324.4	1369.8	1413.0	1446.9	1463.8	1468.5
35°	3106.4	2688.1	1580.2	1181.1	1261.2	1312.1	1352.1	1375.2	1331.3	1322.1	1332.1
37.5°	3212.0	2665.0	1346.0	1161.8	1255.8	1307.4	1342.9	1283.6	1229.6	1208.1	1215.8
40°	3326.0	2651.9	1187.3	1146.4	1258.1	1312.1	1304.4	1216.5	1138.7	1093.3	1091.7
42.5°	3423.1	2631.8	1085.6	1136.4	1264.3	1329.8	1252.0	1157.2	1041.6	1014.7	1015.4
45°	3488.6	2581.0	1031.6	1125.6	1269.7	1333.6	1227.3	1075.5	993.1	976.2	975.4
47.5°	3515.5	2488.5	997.0	1108.7	1268.9	1302.0	1177.2	1041.6	959.2	954.6	957.7
50°	3497.8	2336.8	961.5	1075.5	1250.4	1268.9	1119.5	1011.6	936.1	961.5	980.0
52.5°	3432.3	2140.3	919.1	1030.1	1217.3	1231.2	1090.2	993.1	919.1	953.0	967.7
55°	3415.4	1980.8	865.2	970.8	1168.0	1164.1	1059.4	983.9	907.6	894.5	896.8
57.5°	3393.0	1825.2	775.8	864.4	1043.2	1049.3	1030.1	973.1	877.5	873.7	877.5
60°	2947.7	1399.1	691.9	745.8	856.7	889.9	997.0	953.0	829.0	812.8	812.0
62.5°	1925.3	847.5	615.6	650.3	698.0	736.5	909.1	895.3	775.8	765.8	772.8
65°	1035.5	604.0	560.1	580.9	607.1	636.4	753.5	797.4	701.1	665.7	666.4
67.5°	529.3	513.9	518.5	533.1	553.2	567.8	607.9	646.4	597.9	567.8	567.0
70°	453.0	465.3	472.3	480.8	493.9	491.5	495.4	502.3	498.5	483.8	483.1
72.5°	386.0	405.3	406.8	408.3	413.0	402.2	395.2	383.7	384.5	386.8	387.5
75°	293.5	312.0	316.7	314.3	319.0	305.1	295.9	284.3	270.4	268.1	269.7
77.5°	191.1	205.7	212.6	211.1	213.4	202.6	198.0	185.7	169.5	163.3	163.3
80°	115.6	124.0	129.4	131.0	133.3	125.6	117.9	107.1	100.2	93.2	93.2
82.5°	70.1	75.5	79.4	79.4	81.7	73.2	67.0	59.3	56.2	50.1	50.1
85°	35.4	39.3	40.8	40.1	38.5	31.6	29.3	25.4	23.9	20.8	20.8
87.5°	8.5	10.8	10.8	7.7	7.7	3.9	2.3	0.8	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)