

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: P636729

Luminaire Tested: GWS-SA4B-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-735-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11902.1 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

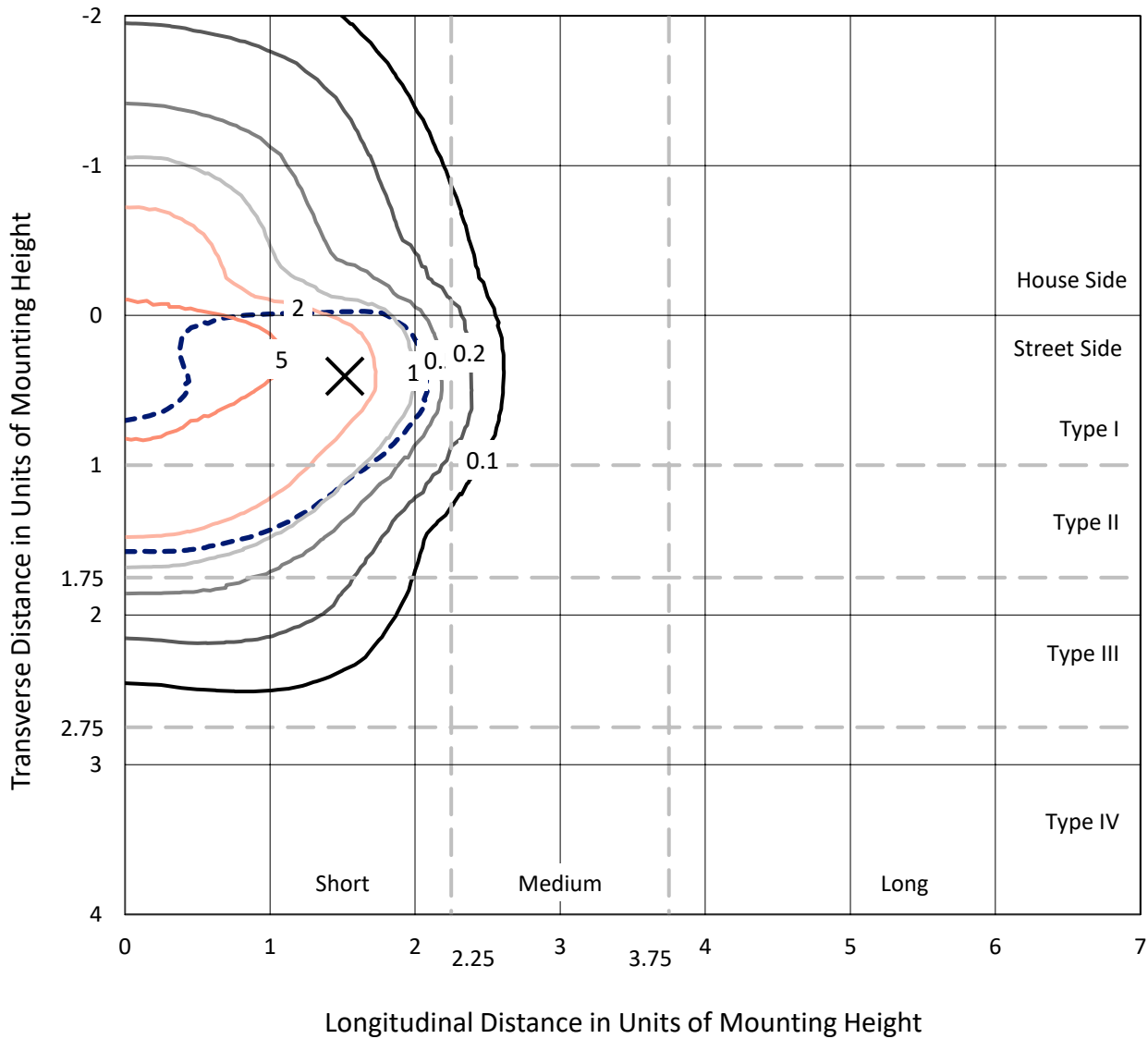
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

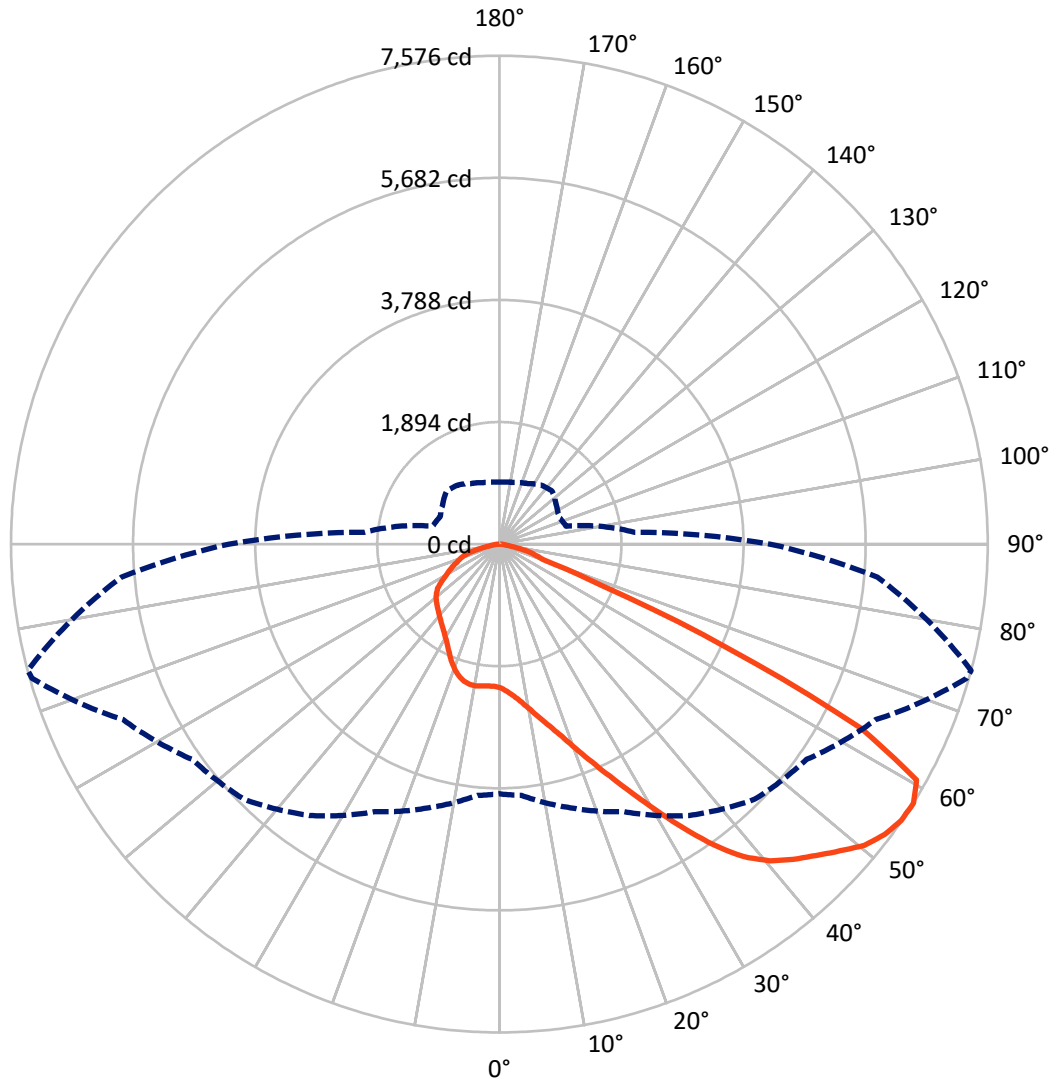
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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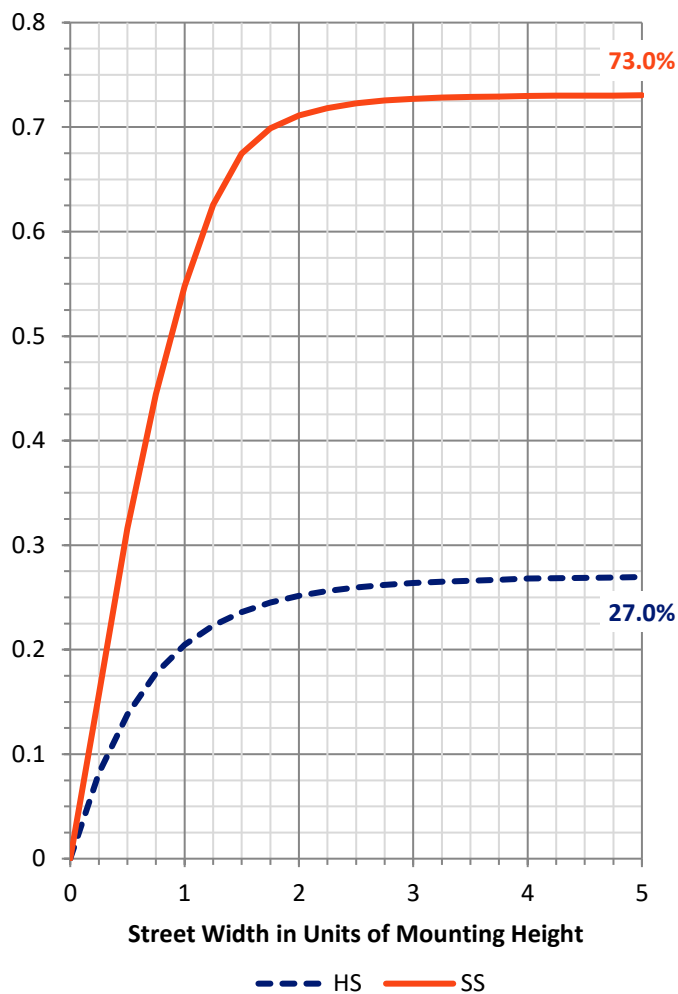
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3219.8	0.0	3219.8
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	8682.3	0.0	8682.3
	% Fixture	72.9	0.0	72.9
Total	Lumens	11902.1	0.0	11902.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.0	1.9
10°-20°	710.2	6.0
20°-30°	1259.4	10.6
30°-40°	1928.0	16.2
40°-50°	2684.6	22.6
50°-60°	3076.0	25.8
60°-70°	1580.5	13.3
70°-80°	397.9	3.3
80°-90°	42.5	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°	11902.1	100.0
0°-180°	11902.1	100.0

Coefficient of Utilization



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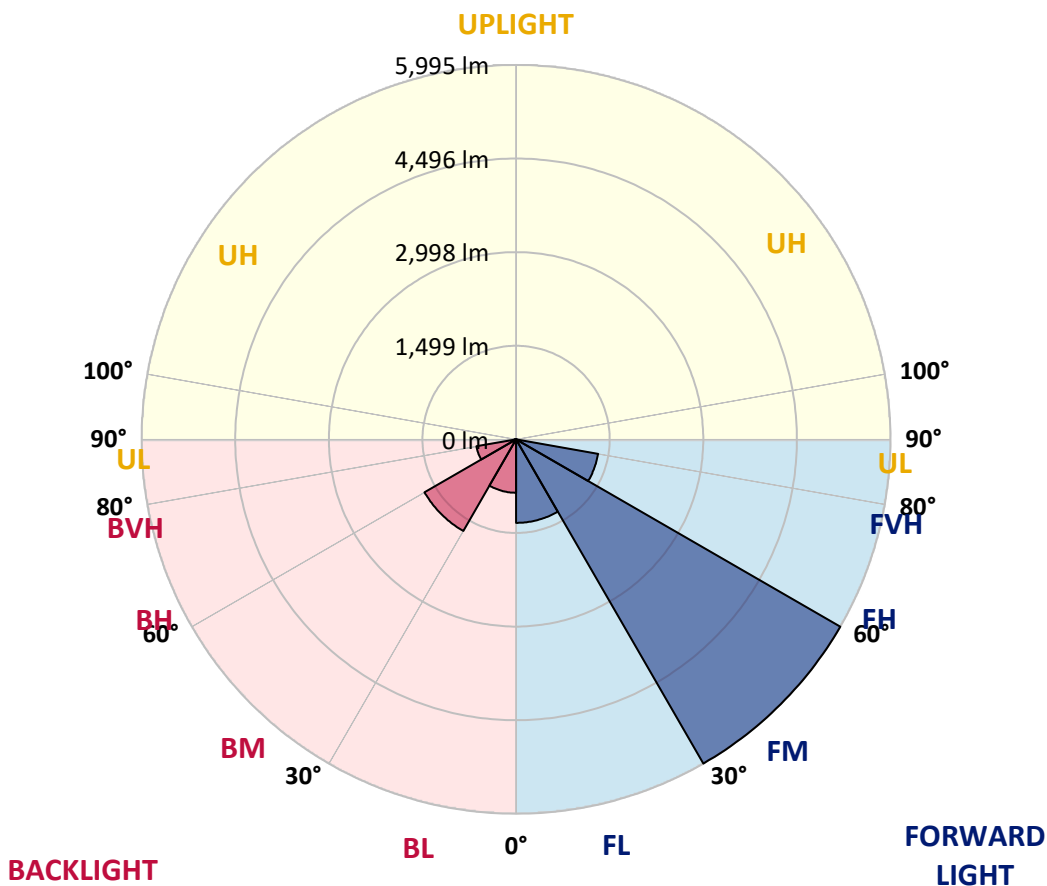
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1337.3	11.2			
FM (30°-60°)	5995.2	50.4			
FH (60°-80°)	1334.1	11.2			G1/1800
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	855.4	7.2	B2/1000		
BM (30°-60°)	1693.3	14.2	B2/2500		
BH (60°-80°)	644.3	5.4	B2/1000		G2/1000
BVH (80°-90°)	26.8	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0
2.5°	2394.8	2400.9	2394.8	2405.0	2384.5	2375.3	2352.8	2319.0	2292.4	2288.3	2258.7
5°	2581.0	2594.3	2586.1	2582.1	2554.4	2534.0	2500.2	2432.6	2377.4	2369.2	2310.9
7.5°	2700.8	2710.0	2710.0	2713.0	2702.8	2679.3	2643.5	2563.6	2485.9	2473.6	2385.6
10°	2740.7	2747.8	2761.1	2786.7	2807.2	2814.4	2790.8	2714.1	2618.9	2606.6	2483.8
12.5°	2749.9	2758.1	2778.5	2825.6	2881.9	2933.1	2937.2	2880.9	2774.5	2761.1	2597.4
15°	2767.3	2775.5	2803.1	2861.4	2944.3	3042.6	3103.0	3064.1	2946.4	2932.1	2726.4
17.5°	2765.2	2774.5	2815.4	2893.2	3004.7	3147.0	3263.6	3280.0	3158.2	3133.7	2872.7
20°	2760.1	2768.3	2812.3	2907.5	3045.7	3241.1	3451.9	3536.9	3405.9	3383.4	3043.6
22.5°	2801.1	2810.3	2844.0	2922.8	3067.1	3313.8	3625.9	3830.6	3699.6	3667.9	3240.1
25°	2893.2	2906.5	2926.9	2981.2	3106.0	3378.3	3804.0	4163.2	4029.1	3991.3	3454.0
27.5°	3035.4	3051.8	3080.5	3106.0	3193.0	3460.1	3981.0	4535.7	4401.7	4361.8	3680.2
30°	3209.4	3230.9	3267.7	3285.1	3344.5	3580.9	4173.4	4919.5	4841.7	4786.5	3935.0
32.5°	3449.9	3479.6	3514.4	3519.5	3555.3	3764.1	4363.8	5300.2	5299.2	5260.3	4224.6
35°	3763.1	3794.8	3802.0	3809.1	3826.5	4015.8	4594.1	5647.2	5781.2	5736.2	4539.8
37.5°	4104.9	4150.9	4162.2	4130.5	4155.0	4318.8	4853.0	5925.5	6200.8	6152.7	4844.8
40°	4470.2	4488.7	4519.4	4469.2	4499.9	4665.7	5106.8	6103.6	6514.0	6462.8	5085.3
42.5°	4732.2	4766.0	4812.1	4793.6	4811.0	4962.5	5284.9	6189.6	6737.1	6685.9	5258.3
45°	5016.7	5027.0	5056.6	5052.6	5062.8	5204.0	5412.8	6227.4	6936.6	6890.6	5405.6
47.5°	5264.4	5279.7	5299.2	5276.7	5254.2	5346.3	5517.2	6260.2	7166.9	7111.6	5560.2
50°	5502.9	5516.2	5539.7	5474.2	5390.3	5413.8	5568.4	6305.2	7382.8	7344.0	5681.9
52.5°	5546.9	5561.2	5671.7	5685.0	5577.6	5494.7	5658.4	6404.5	7509.8	7485.2	5726.0
55°	4993.2	5018.8	5238.8	5491.6	5756.7	5730.0	5802.7	6456.7	7559.9	7566.0	5804.8
57.5°	3875.6	3912.5	4233.8	4580.8	5138.5	5600.1	5821.1	6443.4	7542.5	7576.3	5885.6
60°	2542.1	2563.6	2944.3	3333.2	3911.5	4550.1	5210.2	6203.9	7388.0	7436.1	5865.1
62.5°	1535.1	1559.7	1865.7	2160.4	2501.2	2928.0	3533.8	4986.0	6192.6	6300.1	4697.4
65°	1071.5	1104.3	1372.4	1614.9	1732.6	1644.6	1789.9	2784.7	3858.2	3903.3	2870.7
67.5°	776.8	799.3	1019.3	1307.9	1437.9	1161.6	885.2	1233.2	1680.4	1696.8	1184.1
70°	508.6	534.2	733.8	995.8	1173.8	941.5	662.1	667.3	707.2	715.4	687.7
72.5°	279.4	294.7	453.4	661.1	693.9	562.9	516.8	554.7	582.3	582.3	589.5
75°	144.3	157.6	185.2	218.0	263.0	308.0	372.5	428.8	458.5	460.5	457.5
77.5°	73.7	78.8	99.3	107.5	117.7	137.1	178.1	228.2	254.8	265.1	263.0
80°	34.8	36.8	42.0	49.1	60.4	76.8	96.2	114.6	131.0	133.0	144.3
82.5°	18.4	20.5	22.5	26.6	32.7	40.9	56.3	67.5	77.8	79.8	89.0
85°	7.2	8.2	9.2	10.2	14.3	17.4	23.5	31.7	38.9	38.9	46.1
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	4.1	5.1	7.2	7.2	12.3
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°	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0	2229.0
2.5°	2251.5	2221.8	2208.5	2187.0	2169.6	2150.2	2134.8	2123.6	2116.4	2112.3	2108.2
5°	2288.3	2243.3	2207.5	2164.5	2134.8	2106.2	2082.6	2066.3	2058.1	2051.9	2047.8
7.5°	2345.6	2285.3	2217.7	2151.2	2099.0	2053.0	2023.3	2005.9	1994.6	1990.5	1987.5
10°	2424.4	2340.5	2229.0	2123.6	2045.8	1995.6	1975.2	1967.0	1968.0	1966.0	1964.9
12.5°	2513.5	2398.9	2225.9	2074.4	1988.5	1958.8	1959.8	1973.1	1988.5	1992.6	1993.6
15°	2609.7	2456.2	2196.2	2011.0	1943.4	1946.5	1973.1	2004.9	2033.5	2044.8	2046.8
17.5°	2714.1	2504.3	2142.0	1941.4	1906.6	1939.4	1988.5	2040.7	2082.6	2101.1	2106.2
20°	2830.7	2545.2	2065.2	1872.8	1871.8	1926.0	1997.7	2066.3	2119.5	2144.0	2148.1
22.5°	2954.6	2570.8	1971.1	1809.4	1836.0	1908.7	1990.5	2062.2	2118.4	2143.0	2148.1
25°	3079.4	2579.0	1867.7	1751.0	1799.1	1881.0	1955.7	2013.0	2066.3	2087.7	2091.8
27.5°	3196.1	2555.4	1769.5	1700.9	1765.4	1840.1	1890.2	1920.9	1957.8	1974.1	1977.2
30°	3314.8	2508.4	1686.6	1661.0	1727.5	1783.8	1806.3	1808.4	1822.7	1822.7	1824.7
32.5°	3434.5	2438.8	1613.9	1622.1	1680.4	1717.3	1720.3	1696.8	1679.4	1650.8	1649.7
35°	3572.7	2368.2	1554.6	1578.1	1625.2	1647.7	1638.5	1593.4	1551.5	1504.4	1502.4
37.5°	3700.6	2295.5	1504.4	1533.1	1562.7	1579.1	1557.6	1503.4	1468.6	1420.5	1413.3
40°	3806.0	2230.0	1456.3	1486.0	1500.3	1514.6	1479.8	1435.8	1441.0	1414.3	1413.3
42.5°	3867.5	2166.5	1411.3	1433.8	1443.0	1453.2	1422.5	1389.8	1417.4	1396.9	1398.0
45°	3912.5	2111.3	1370.3	1378.5	1401.0	1416.4	1387.7	1350.9	1357.0	1278.2	1259.8
47.5°	3963.7	2080.6	1331.5	1323.3	1363.2	1389.8	1345.8	1292.6	1255.7	1177.9	1170.8
50°	4017.9	2069.3	1290.5	1268.0	1316.1	1341.7	1290.5	1224.0	1175.9	1133.9	1129.8
52.5°	4036.3	2068.3	1239.3	1201.5	1249.6	1285.4	1242.4	1174.9	1117.6	1076.6	1074.6
55°	4109.0	2098.0	1173.8	1110.4	1155.4	1229.1	1197.4	1100.2	1054.1	1035.7	1033.6
57.5°	4193.9	2103.1	1070.5	1011.1	1073.6	1160.5	1120.6	1036.7	986.6	964.0	962.0
60°	4159.1	1977.2	960.0	935.4	1004.0	1096.1	1059.2	986.6	928.2	906.7	904.7
62.5°	3169.5	1395.9	879.1	869.9	929.3	1002.9	995.8	920.0	864.8	849.4	847.4
65°	1906.6	980.4	801.3	800.3	842.3	912.9	922.1	860.7	802.4	780.9	780.9
67.5°	942.6	750.2	713.3	708.2	734.8	785.0	823.8	773.7	724.6	704.1	701.0
70°	666.2	661.1	648.8	634.5	639.6	660.1	676.5	634.5	582.3	561.8	557.8
72.5°	576.2	577.2	569.0	557.8	553.7	539.3	525.0	494.3	462.6	441.1	443.1
75°	447.2	449.3	454.4	450.3	439.0	423.7	408.3	369.4	343.9	323.4	319.3
77.5°	261.0	271.2	287.6	283.5	285.5	264.0	257.9	220.0	196.5	182.2	179.1
80°	147.4	153.5	160.7	165.8	159.7	150.4	137.1	116.7	109.5	99.3	97.2
82.5°	89.0	95.2	98.2	102.3	100.3	88.0	77.8	64.5	58.3	53.2	52.2
85°	45.0	49.1	52.2	54.2	48.1	39.9	35.8	28.7	24.6	21.5	21.5
87.5°	11.3	12.3	14.3	12.3	11.3	5.1	4.1	1.0	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)