

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: P636910

Luminaire Tested: GWS-SA4B-760-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-760-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14105.3 lumens
Efficiency: N/A
Efficacy: 149.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

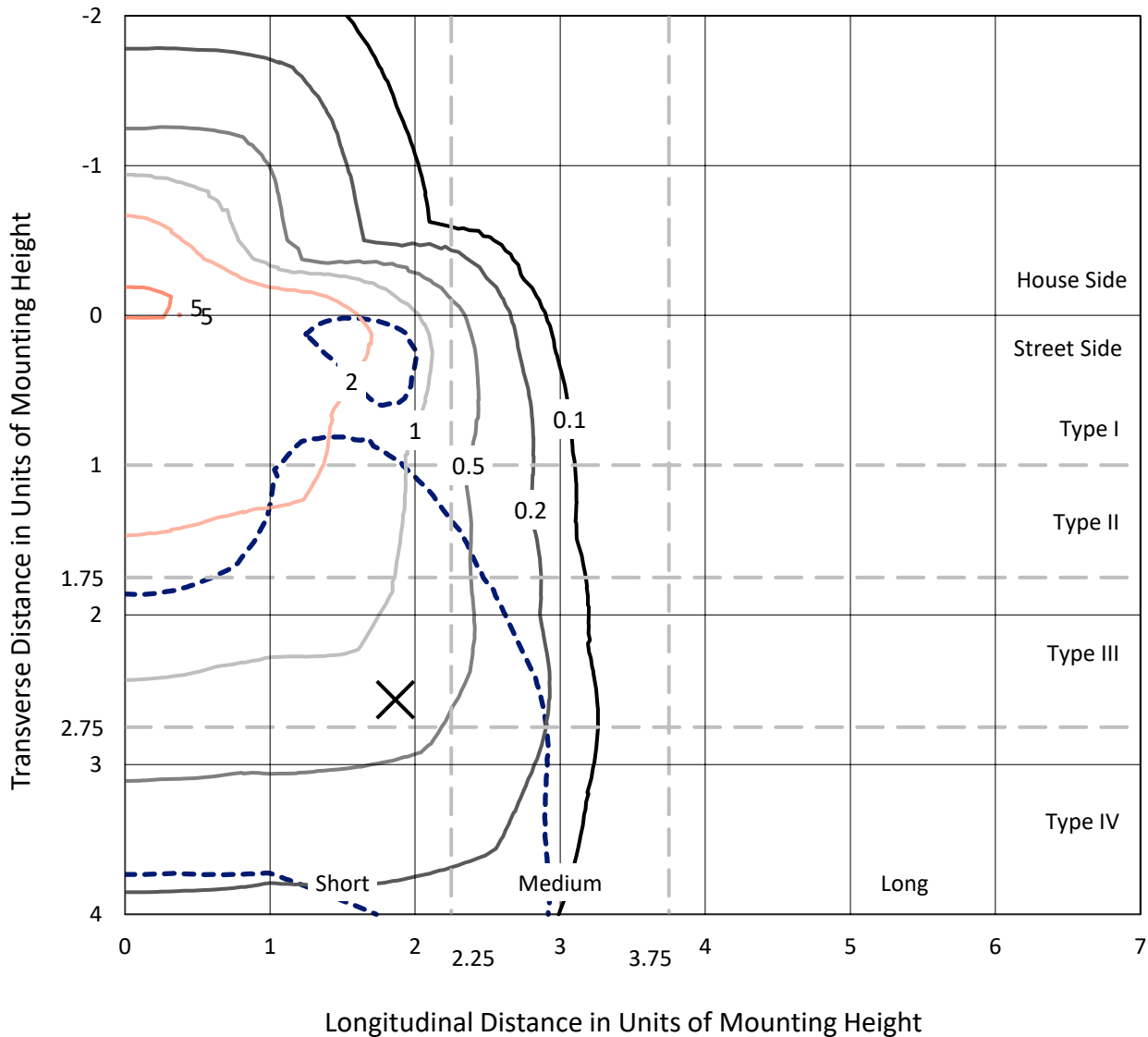
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

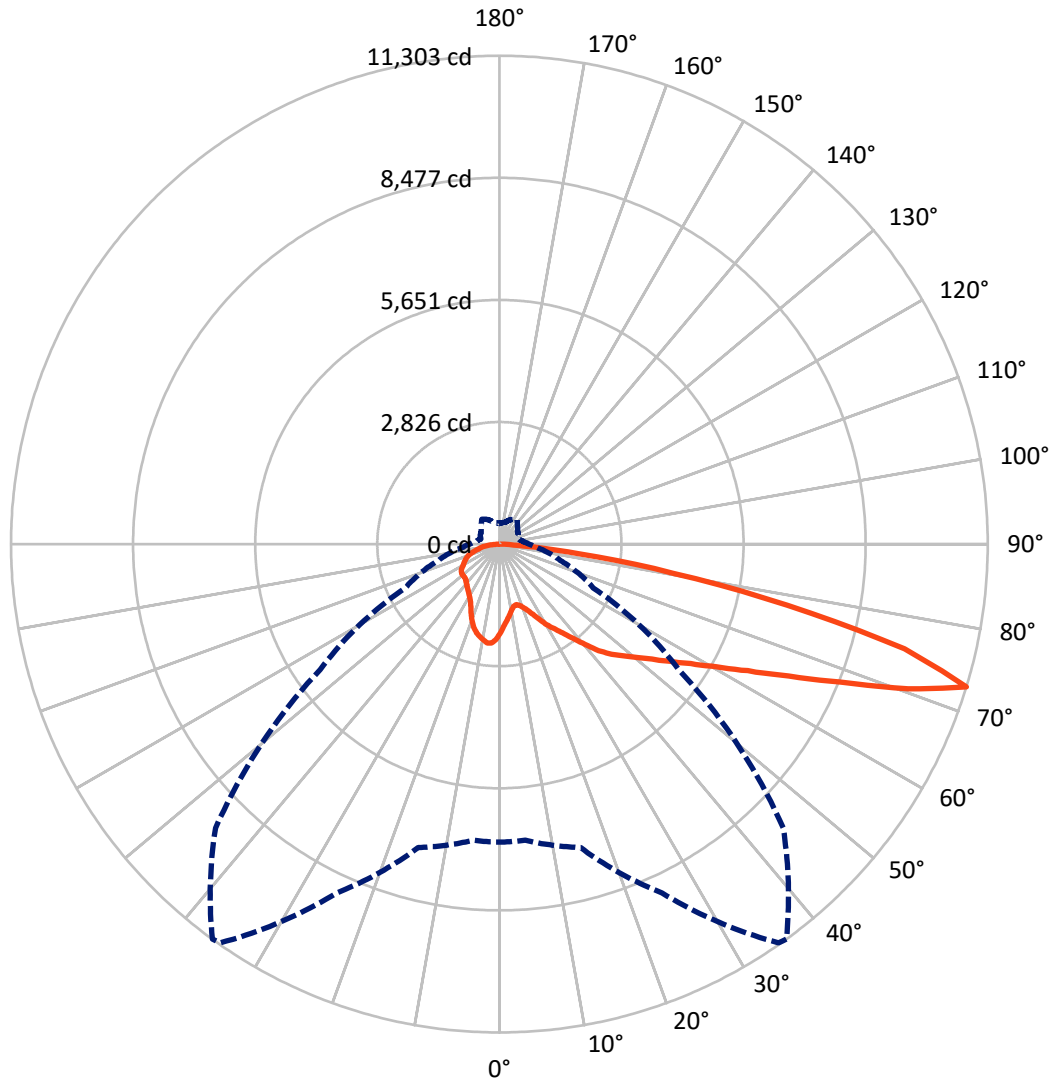
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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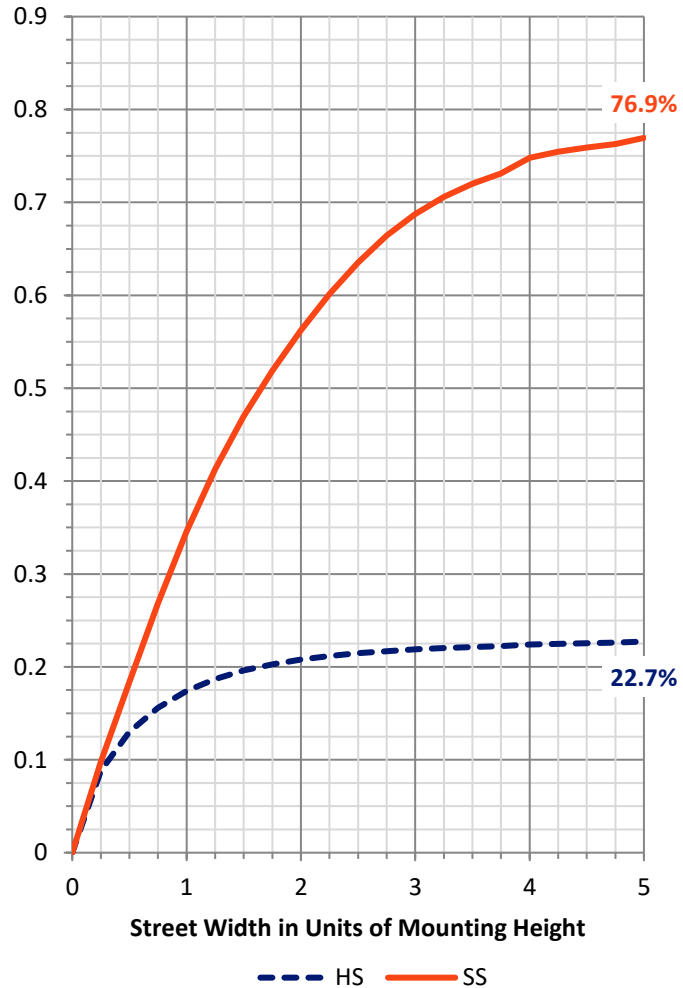
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3251.9	0.0	3251.9
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	10853.4	0.0	10853.4
	% Fixture	76.9	0.0	76.9
Total	Lumens	14105.3	0.0	14105.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	1.4
10°-20°	544.4	3.9
20°-30°	901.6	6.4
30°-40°	1350.3	9.6
40°-50°	1969.9	14.0
50°-60°	2803.8	19.9
60°-70°	3542.4	25.1
70°-80°	2524.3	17.9
80°-90°	275.6	2.0
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°	14105.3	100.0
0°-180°	14105.3	100.0

Coefficient of Utilization



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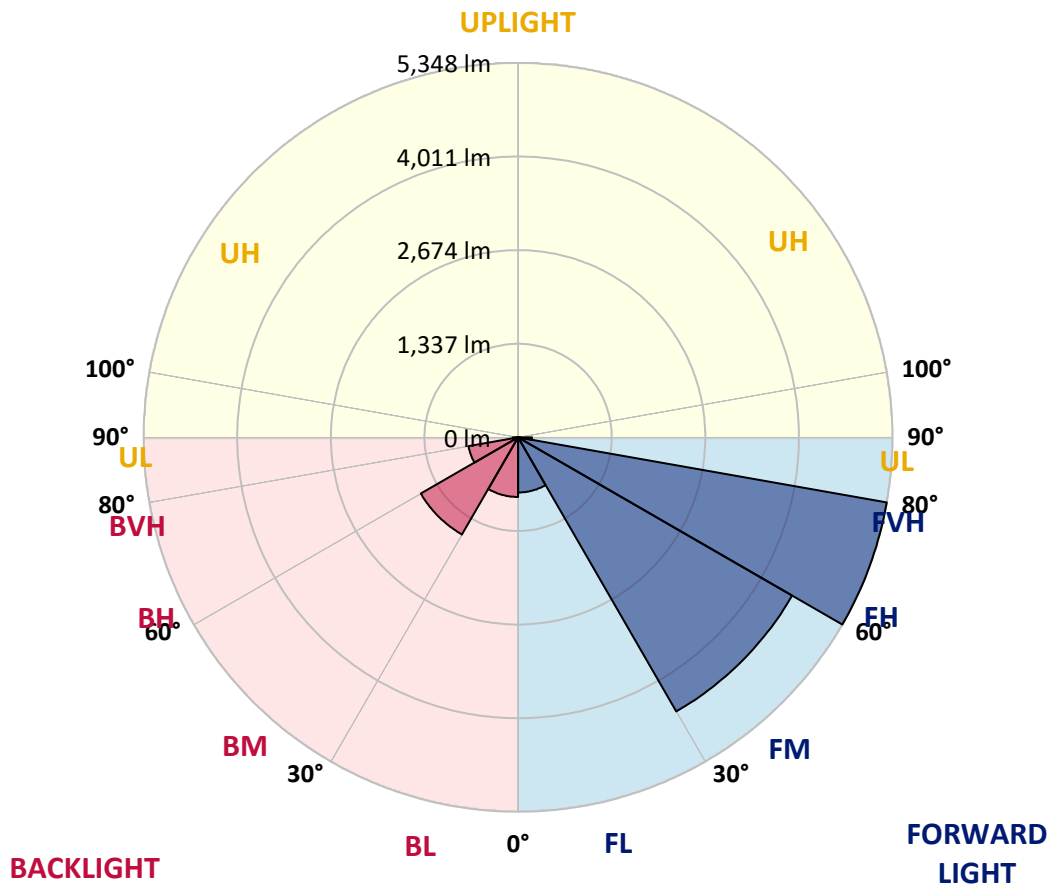
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	787.5	5.6			
FM (30°-60°)	4520.4	32.0			
FH (60°-80°)	5347.8	37.9			G3/7500
FVH (80°-90°)	197.8	1.4			G2/225
BL (0°-30°)	851.6	6.0	B2/1000		
BM (30°-60°)	1603.6	11.4	B2/2500		
BH (60°-80°)	718.9	5.1	B2/1000		G2/1000
BVH (80°-90°)	77.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4
2.5°	1883.3	1880.1	1873.8	1892.7	1911.5	1909.4	1935.6	1960.7	1988.0	2016.2	2053.9
5°	1732.5	1730.4	1725.2	1753.5	1781.7	1780.7	1823.6	1864.4	1919.9	1980.6	2056.0
7.5°	1581.8	1576.5	1583.9	1619.5	1659.2	1663.4	1722.1	1789.1	1869.7	1960.7	2067.5
10°	1448.8	1447.8	1450.9	1490.7	1550.4	1554.6	1629.9	1723.1	1829.9	1951.3	2093.7
12.5°	1414.3	1412.2	1403.8	1423.7	1468.7	1475.0	1557.7	1671.8	1802.7	1956.5	2129.3
15°	1470.8	1465.6	1436.3	1426.8	1448.8	1454.1	1524.2	1641.4	1787.0	1966.0	2174.3
17.5°	1568.2	1565.0	1509.5	1470.8	1485.5	1489.7	1542.0	1636.2	1782.8	1984.8	2229.8
20°	1710.5	1696.9	1610.0	1551.4	1551.4	1557.7	1589.1	1659.2	1788.0	2007.8	2292.6
22.5°	1899.0	1871.8	1749.3	1669.7	1648.8	1657.2	1670.8	1716.8	1810.0	2046.6	2371.1
25°	2110.4	2085.3	1939.8	1827.8	1798.5	1801.6	1790.1	1798.5	1858.1	2100.0	2468.5
27.5°	2335.5	2318.8	2163.8	2021.5	1975.4	1975.4	1934.6	1914.7	1925.1	2160.7	2577.3
30°	2536.5	2513.5	2382.6	2226.6	2165.9	2165.9	2088.5	2045.5	2020.4	2235.0	2722.8
32.5°	2642.2	2628.6	2541.7	2422.4	2348.1	2336.6	2269.6	2219.3	2160.7	2344.9	2919.6
35°	2780.4	2777.3	2724.9	2631.8	2537.5	2520.8	2474.7	2435.0	2333.4	2482.1	3181.4
37.5°	2954.2	2949.0	2940.6	2885.1	2772.0	2768.9	2728.1	2679.9	2548.0	2679.9	3498.5
40°	3148.9	3139.5	3129.0	3128.0	3059.9	3048.4	3045.3	2990.8	2806.6	2918.6	3829.4
42.5°	3416.9	3384.4	3286.0	3330.0	3380.3	3369.8	3409.6	3327.9	3129.0	3202.3	4142.4
45°	3746.7	3667.1	3472.4	3484.9	3611.6	3632.5	3770.7	3750.8	3483.9	3530.0	4472.1
47.5°	3944.5	3875.4	3694.3	3683.8	3841.9	3868.1	4168.5	4206.2	3866.0	3924.6	4879.3
50°	4106.8	4058.6	3910.0	3924.6	4092.1	4118.3	4563.2	4643.8	4226.1	4328.7	5352.5
52.5°	4302.5	4233.4	4118.3	4187.4	4392.6	4424.0	5001.8	5088.7	4550.6	4772.6	5842.4
55°	4412.4	4384.2	4386.3	4492.0	4749.5	4792.4	5461.4	5446.7	4847.9	5152.6	6210.9
57.5°	4665.8	4655.3	4751.6	4791.4	5166.2	5221.7	5920.9	5795.3	5118.0	5446.7	6387.8
60°	5112.8	5086.6	5170.4	5231.1	5681.2	5759.7	6433.9	6136.6	5301.2	5665.5	6328.2
62.5°	5740.9	5708.4	5711.6	5807.9	6371.1	6453.8	7004.4	6421.3	5357.7	5699.0	5950.3
65°	6521.8	6474.7	6421.3	6552.2	7287.1	7356.2	7625.2	6628.6	5222.7	5376.6	5160.9
67.5°	7345.7	7307.0	7244.2	7518.4	8473.1	8515.0	8321.4	6610.8	4794.5	4514.0	3620.0
70°	7393.9	7403.3	7700.6	8693.0	10021.4	10031.9	8979.8	6252.8	3882.7	2925.9	1803.7
72.5°	6897.6	6881.9	7269.3	8907.6	11267.2	11302.8	9290.7	5065.7	2399.4	1459.3	845.8
75°	5602.7	5629.9	6037.1	7793.7	9657.1	9688.5	7573.9	2986.6	1140.0	713.9	541.2
77.5°	2411.9	2563.7	3366.6	5490.7	6916.5	6819.1	3903.7	1210.2	608.2	508.8	414.5
80°	696.2	755.8	1199.7	2610.8	4144.5	4071.2	1545.1	453.3	424.0	382.1	297.3
82.5°	225.1	249.1	439.7	1039.5	1857.1	1855.0	586.2	268.0	277.4	259.6	191.6
85°	62.8	72.2	135.0	315.1	574.7	563.2	169.6	126.7	147.6	149.7	95.3
87.5°	0.0	0.0	1.0	2.1	2.1	2.1	4.2	18.8	42.9	54.4	38.7
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°	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4	2064.4
2.5°	2076.9	2073.8	2116.7	2150.2	2181.6	2202.6	2208.8	2213.0	2221.4	2225.6	2221.4
5°	2091.6	2107.3	2178.5	2230.8	2272.7	2297.8	2298.9	2296.8	2303.1	2297.8	2294.7
7.5°	2123.0	2153.4	2243.4	2298.9	2326.1	2327.1	2302.0	2272.7	2258.0	2245.5	2241.3
10°	2164.9	2209.9	2308.3	2344.9	2336.6	2297.8	2242.3	2196.3	2170.1	2151.3	2147.1
12.5°	2222.4	2272.7	2365.9	2364.8	2312.5	2243.4	2178.5	2123.0	2085.3	2063.3	2056.0
15°	2276.9	2340.7	2407.7	2358.5	2275.8	2192.1	2108.3	2034.0	1983.8	1949.2	1942.9
17.5°	2343.9	2411.9	2438.1	2338.6	2229.8	2122.0	2009.9	1912.6	1844.5	1803.7	1800.6
20°	2421.3	2482.1	2452.8	2304.1	2170.1	2028.8	1877.0	1768.1	1694.8	1655.1	1658.2
22.5°	2511.4	2555.3	2456.9	2257.0	2087.4	1896.9	1727.3	1622.6	1573.4	1552.5	1553.5
25°	2607.7	2635.9	2449.6	2193.1	1960.7	1735.7	1573.4	1525.2	1521.1	1515.8	1517.9
27.5°	2721.8	2715.5	2427.6	2103.1	1790.1	1548.3	1465.6	1478.1	1494.9	1492.8	1494.9
30°	2874.6	2815.0	2399.4	1978.5	1587.0	1391.3	1401.7	1437.3	1459.3	1461.4	1467.7
32.5°	3049.5	2924.9	2354.3	1808.9	1393.3	1303.3	1342.1	1385.0	1411.1	1416.4	1424.8
35°	3257.8	3050.5	2274.8	1597.5	1254.1	1251.0	1286.6	1315.9	1344.1	1346.2	1346.2
37.5°	3497.5	3176.1	2148.1	1364.0	1168.3	1206.0	1239.5	1245.7	1253.1	1246.8	1249.9
40°	3717.3	3297.6	1968.1	1151.5	1098.1	1166.2	1194.4	1173.5	1150.5	1134.8	1137.9
42.5°	3901.6	3380.3	1729.4	1002.9	1027.0	1130.6	1152.6	1109.7	1064.6	1035.3	1039.5
45°	4108.9	3456.7	1448.8	902.4	966.2	1105.5	1120.1	1064.6	1007.1	963.1	956.8
47.5°	4394.6	3612.7	1199.7	832.2	923.3	1091.9	1115.9	1040.6	965.2	899.2	891.9
50°	4747.4	3833.5	991.4	786.2	903.4	1084.5	1114.9	1014.4	924.4	846.9	841.7
52.5°	5132.7	4049.2	837.5	750.6	883.5	1062.5	1109.7	985.1	881.4	797.7	791.4
55°	5389.1	4134.0	733.8	717.1	851.1	1028.0	1088.7	956.8	816.5	740.1	730.7
57.5°	5464.5	4025.1	661.6	686.7	809.2	979.8	1048.9	897.1	776.8	716.0	708.7
60°	5334.7	3750.8	616.6	661.6	763.1	918.1	979.8	862.6	745.4	690.9	685.7
62.5°	4968.3	3327.9	582.0	635.4	716.0	853.2	935.9	820.7	710.8	667.9	660.6
65°	4231.3	2729.1	553.8	608.2	671.0	791.4	887.7	778.9	673.1	640.7	632.3
67.5°	2959.4	1916.8	523.4	575.8	626.0	731.7	837.5	740.1	634.4	610.3	601.9
70°	1446.7	1016.5	486.8	538.1	577.9	671.0	787.2	693.0	583.1	569.5	558.0
72.5°	688.8	568.4	443.9	486.8	511.9	590.4	703.5	625.0	522.4	493.1	473.2
75°	461.7	404.1	387.3	426.1	432.3	495.2	603.0	539.1	460.6	427.1	410.4
77.5°	349.6	308.8	325.6	360.1	347.6	407.2	496.2	480.5	415.6	385.2	376.9
80°	246.0	225.1	258.6	279.5	270.1	346.5	447.0	411.4	342.3	308.8	302.5
82.5°	154.9	150.7	190.5	193.7	196.8	274.3	367.4	323.5	265.9	218.8	203.1
85°	77.5	85.8	114.1	114.1	113.1	141.3	209.4	182.2	143.4	114.1	111.0
87.5°	26.2	36.6	49.2	39.8	30.4	24.1	27.2	33.5	35.6	34.5	34.5
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)