

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: P633243

Luminaire Tested: GWS-SA2E-735-U-RW-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-49)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-RW-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14814.6 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

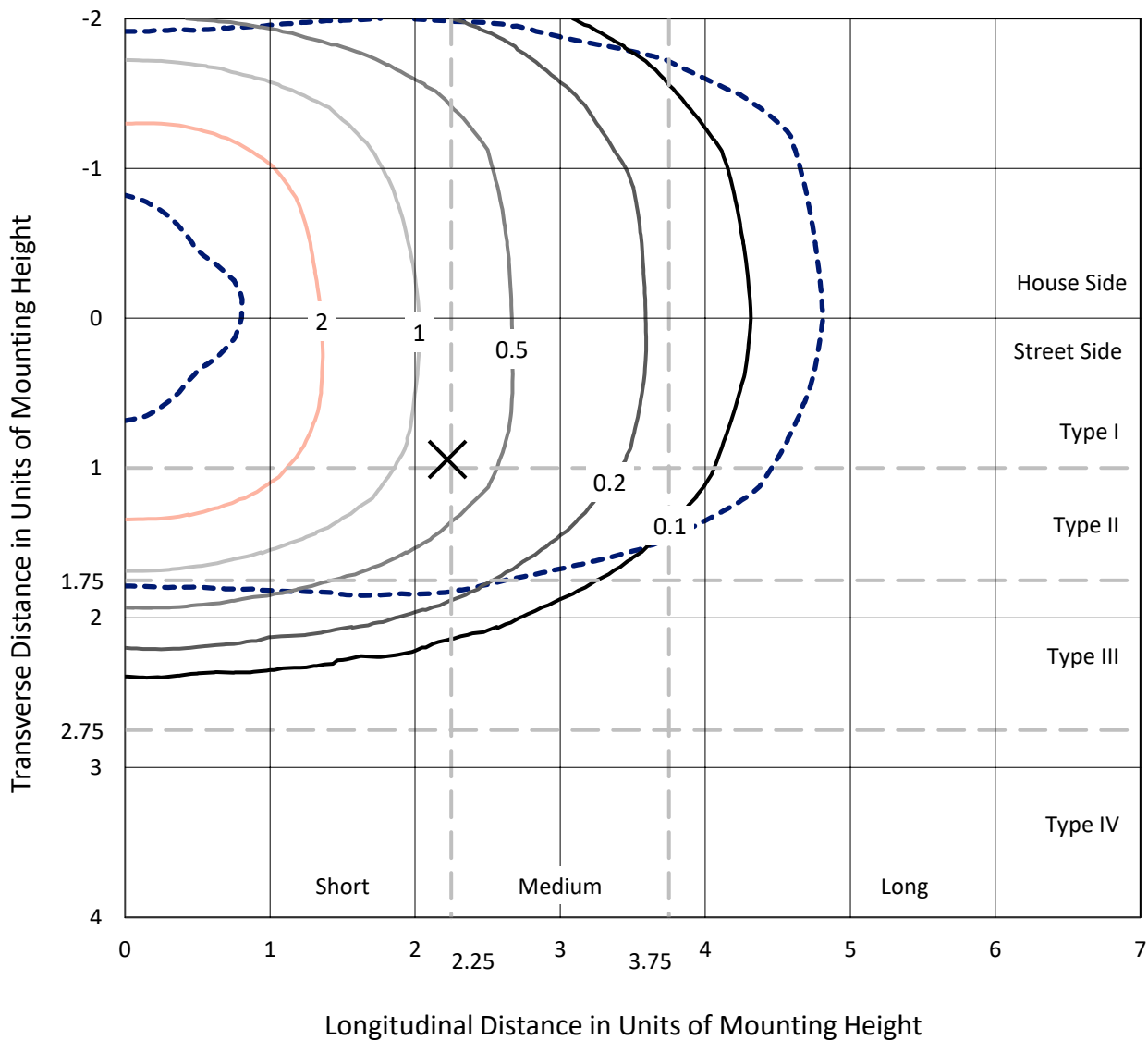
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P633243
 CATALOG NUMBER: GWS-SA2E-735-U-RW-W

Iso-Footcandle Lines of Horizontal Illumination

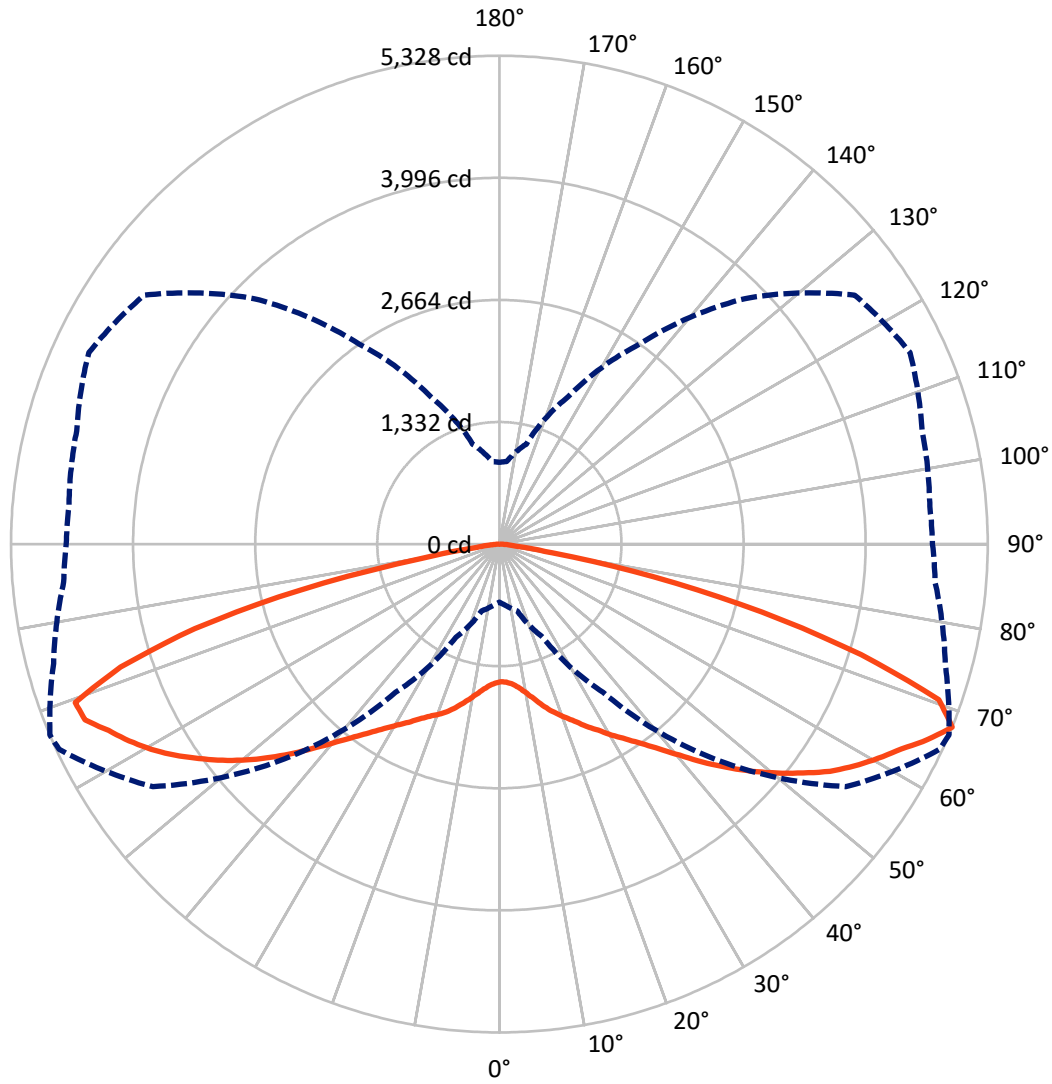
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

REPORT NUMBER: P633243
CATALOG NUMBER: GWS-SA2E-735-U-RW-W

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P633243

CATALOG NUMBER: GWS-SA2E-735-U-RW-W

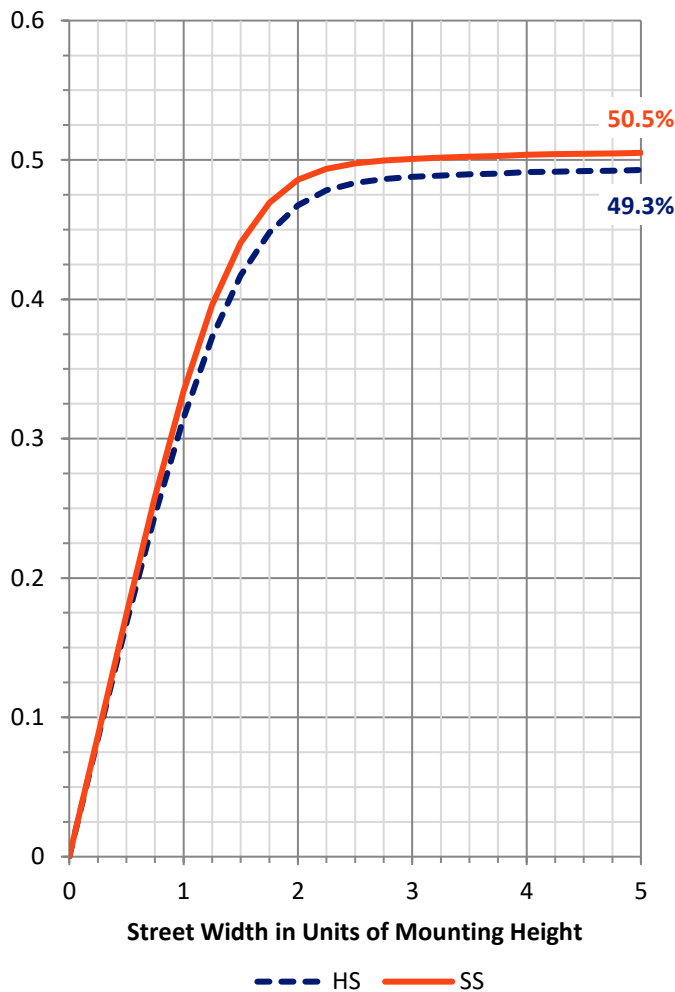
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7325.6	0.0	7325.6
	% Fixture	49.4	0.0	49.4
Street Side	Lumens	7489.1	0.0	7489.1
	% Fixture	50.6	0.0	50.6
Total	Lumens	14814.6	0.0	14814.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	1.0
10°-20°	497.2	3.4
20°-30°	975.5	6.6
30°-40°	1662.0	11.2
40°-50°	2668.8	18.0
50°-60°	3626.3	24.5
60°-70°	3468.8	23.4
70°-80°	1649.2	11.1
80°-90°	119.5	0.8
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°	14814.6	100.0
0°-180°	14814.6	100.0

Coefficient of Utilization



REPORT NUMBER: P633243

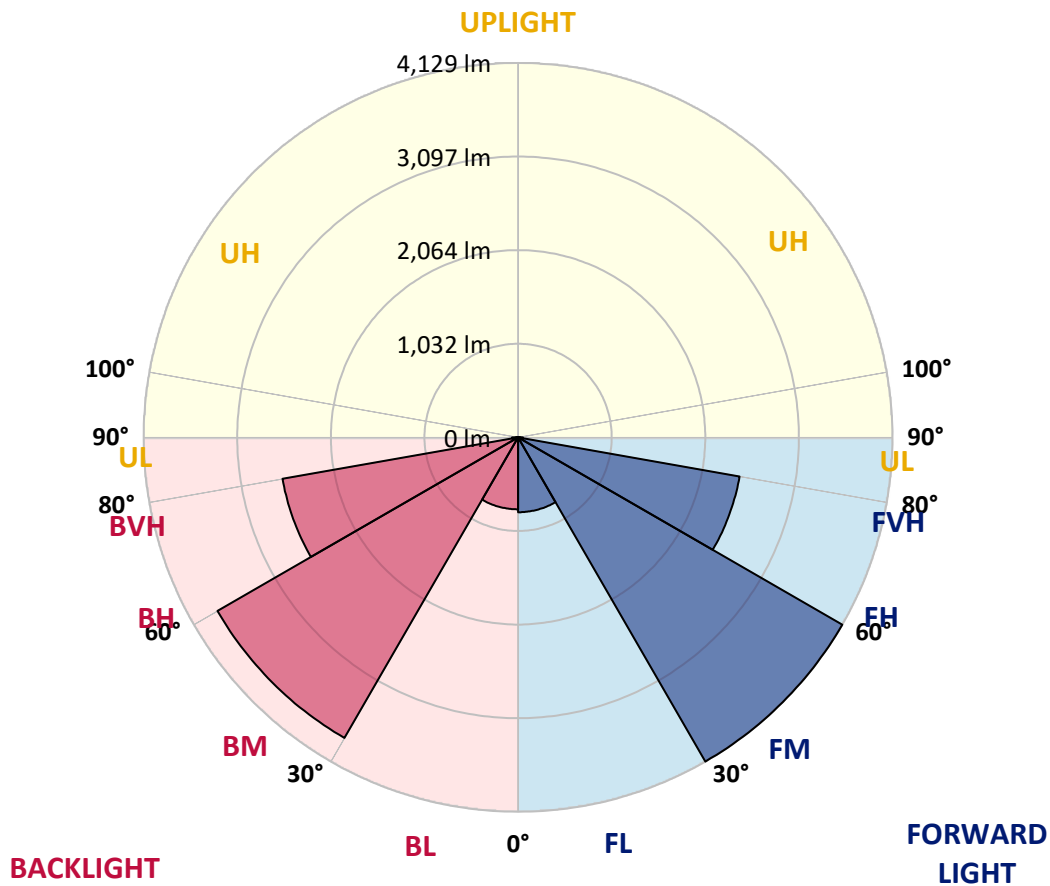
CATALOG NUMBER: GWS-SA2E-735-U-RW-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	826.0	5.6			
FM (30°-60°)	4129.0	27.9			
FH (60°-80°)	2480.4	16.7			G2/5000
FVH (80°-90°)	53.7	0.4			G1/100
BL (0°-30°)	793.9	5.4	B2/1000		
BM (30°-60°)	3828.2	25.8	B3/5000		
BH (60°-80°)	2637.7	17.8	B4/5000		G4/5000
BVH (80°-90°)	65.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





REPORT NUMBER: P633243
 CATALOG NUMBER: GWS-SA2E-735-U-RW-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1
2.5°	1469.1	1471.2	1474.3	1480.5	1486.6	1495.9	1505.2	1504.2	1508.3	1511.4	1514.5
5°	1460.9	1462.9	1468.1	1476.3	1485.6	1501.1	1520.7	1528.9	1535.1	1546.5	1556.8
7.5°	1478.4	1482.5	1489.7	1501.1	1515.5	1535.1	1562.0	1576.4	1585.7	1606.3	1623.9
10°	1502.1	1507.3	1521.7	1543.4	1565.1	1595.0	1629.0	1650.7	1656.9	1683.7	1716.7
12.5°	1524.8	1531.0	1554.7	1593.9	1633.1	1673.4	1713.6	1740.4	1742.5	1778.6	1815.8
15°	1560.9	1566.1	1598.1	1648.6	1708.5	1764.2	1813.7	1832.3	1840.5	1866.3	1912.7
17.5°	1640.4	1646.6	1687.8	1742.5	1805.4	1864.2	1913.8	1929.2	1929.2	1950.9	1989.1
20°	1726.0	1732.2	1786.9	1857.0	1933.4	1993.2	2031.4	2016.9	2011.8	2018.0	2044.8
22.5°	1821.9	1833.3	1885.9	1967.4	2061.3	2134.5	2154.1	2110.8	2096.4	2081.9	2088.1
25°	1944.7	1958.1	2009.7	2096.4	2188.2	2265.6	2276.9	2209.9	2201.6	2151.1	2132.5
27.5°	2086.1	2096.4	2160.3	2246.0	2331.6	2396.6	2409.0	2326.4	2298.6	2228.4	2185.1
30°	2268.7	2277.9	2333.7	2418.3	2492.5	2537.9	2553.4	2439.9	2418.3	2311.0	2243.9
32.5°	2467.8	2471.9	2528.6	2610.1	2676.2	2719.5	2697.8	2565.8	2533.8	2413.1	2321.3
35°	2695.8	2695.8	2769.0	2835.1	2887.7	2900.0	2858.8	2708.2	2671.0	2540.0	2425.5
37.5°	2919.7	2925.8	2993.9	3072.3	3118.8	3116.7	3041.4	2876.3	2834.0	2691.6	2564.8
40°	3162.1	3175.5	3243.6	3331.3	3375.7	3369.5	3253.9	3070.3	3026.9	2858.8	2735.0
42.5°	3384.9	3406.6	3486.0	3575.8	3624.3	3620.2	3499.5	3293.1	3250.8	3061.0	2937.2
45°	3562.4	3585.1	3684.1	3809.0	3886.3	3879.1	3757.4	3524.2	3472.6	3273.5	3137.3
47.5°	3718.2	3741.9	3852.3	3984.3	4107.1	4119.5	4008.1	3757.4	3702.7	3501.5	3347.8
50°	3837.8	3849.2	3973.0	4117.4	4259.8	4328.9	4231.9	3991.6	3925.5	3726.4	3553.1
52.5°	3828.6	3844.0	3996.7	4192.7	4383.6	4497.1	4430.0	4212.3	4148.4	3931.7	3762.5
55°	3639.8	3655.2	3836.8	4122.6	4452.7	4619.9	4612.6	4422.8	4376.4	4141.2	3980.2
57.5°	3364.3	3398.3	3578.9	3887.4	4361.9	4717.9	4746.8	4614.7	4566.2	4346.5	4195.8
60°	2871.2	2916.6	3125.0	3525.2	4071.0	4684.9	4890.2	4776.7	4746.8	4537.3	4390.8
62.5°	2086.1	2119.1	2396.6	2921.7	3639.8	4449.6	5010.9	4943.8	4921.1	4708.6	4567.2
65°	1249.4	1324.7	1547.5	2066.5	2936.2	4006.0	4944.8	5162.5	5138.8	4885.0	4717.9
67.5°	632.4	666.5	754.2	1120.4	1974.6	3314.8	4613.7	5298.7	5327.6	5035.6	4771.5
70°	392.0	401.3	426.1	553.0	986.3	2177.9	3772.8	4943.8	5085.1	5011.9	4632.2
72.5°	314.7	316.7	320.9	344.6	473.5	1018.3	2385.2	3871.9	4126.7	4680.7	4433.1
75°	261.0	262.0	263.1	270.3	295.1	415.8	1160.6	2660.7	2958.9	3978.2	4110.2
77.5°	209.4	204.3	208.4	211.5	217.7	232.1	400.3	1419.6	1721.9	2611.2	3178.6
80°	136.2	134.1	142.4	145.5	151.7	160.9	213.6	481.8	585.0	950.2	1011.0
82.5°	73.2	69.1	86.7	83.6	86.7	93.9	125.9	176.4	198.1	286.8	242.4
85°	22.7	22.7	23.7	27.9	34.0	33.0	54.7	86.7	95.9	122.8	90.8
87.5°	4.1	4.1	4.1	4.1	4.1	5.2	11.3	17.5	23.7	42.3	32.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P633243
 CATALOG NUMBER: GWS-SA2E-735-U-RW-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1	1500.1
2.5°	1520.7	1511.4	1516.6	1519.7	1518.6	1516.6	1506.3	1504.2	1499.0	1490.8	1488.7
5°	1566.1	1555.8	1556.8	1553.7	1543.4	1530.0	1507.3	1495.9	1486.6	1476.3	1475.3
7.5°	1637.3	1625.9	1622.8	1608.4	1579.5	1548.5	1512.4	1491.8	1476.3	1462.9	1460.9
10°	1728.1	1716.7	1706.4	1672.4	1624.9	1583.6	1536.2	1506.3	1483.6	1467.0	1464.0
12.5°	1829.2	1819.9	1794.1	1744.6	1687.8	1639.3	1590.8	1553.7	1520.7	1495.9	1492.8
15°	1941.6	1921.0	1881.8	1817.8	1764.2	1725.0	1666.2	1615.6	1563.0	1530.0	1522.8
17.5°	2020.0	2002.5	1956.1	1894.2	1851.9	1817.8	1748.7	1676.5	1605.3	1556.8	1546.5
20°	2075.7	2057.2	2004.6	1959.2	1945.7	1916.9	1836.4	1752.8	1670.3	1610.5	1597.0
22.5°	2116.0	2096.4	2042.7	2020.0	2038.6	2033.4	1955.0	1860.1	1762.1	1690.9	1674.4
25°	2154.1	2135.6	2088.1	2096.4	2145.9	2161.4	2076.8	1966.4	1855.0	1771.4	1751.8
27.5°	2190.3	2166.5	2144.9	2190.3	2260.4	2289.3	2199.5	2074.7	1954.0	1868.4	1852.9
30°	2246.0	2218.1	2215.0	2281.0	2392.5	2417.2	2318.2	2193.3	2073.7	1987.0	1967.4
32.5°	2316.1	2290.3	2292.4	2391.4	2520.4	2541.0	2456.4	2339.8	2220.2	2133.5	2106.7
35°	2411.0	2379.1	2396.6	2518.3	2648.3	2686.5	2618.4	2521.4	2404.8	2316.1	2286.2
37.5°	2542.1	2495.6	2531.7	2659.7	2790.7	2847.4	2794.8	2722.6	2607.1	2517.3	2489.4
40°	2709.2	2671.0	2685.5	2826.8	2961.9	3030.0	2997.0	2925.8	2811.3	2717.4	2685.5
42.5°	2907.3	2869.1	2863.9	3014.6	3149.7	3252.9	3220.9	3155.9	3037.3	2930.0	2899.0
45°	3101.2	3066.1	3073.4	3227.1	3378.7	3491.2	3459.2	3382.9	3253.9	3130.1	3105.4
47.5°	3303.4	3274.5	3280.7	3443.7	3610.9	3723.3	3683.1	3590.2	3439.6	3307.6	3277.6
50°	3510.8	3477.8	3487.1	3658.3	3838.9	3945.1	3883.2	3746.0	3579.9	3451.0	3425.2
52.5°	3717.1	3677.9	3701.7	3863.6	4050.4	4135.0	4020.5	3854.4	3693.4	3565.5	3536.6
55°	3954.4	3913.2	3887.4	4060.7	4245.4	4280.4	4123.6	3929.7	3738.8	3593.3	3575.8
57.5°	4171.1	4136.0	4087.5	4260.8	4397.0	4371.2	4203.1	3909.0	3628.4	3441.7	3416.9
60°	4365.0	4335.1	4292.8	4440.3	4502.2	4444.5	4139.1	3664.5	3356.1	3161.1	3149.7
62.5°	4543.5	4511.5	4472.3	4598.2	4589.9	4455.8	3848.2	3289.0	2876.3	2666.9	2648.3
65°	4684.9	4656.0	4644.6	4743.7	4730.2	4234.0	3395.3	2674.1	2101.5	1865.3	1858.1
67.5°	4725.1	4713.7	4774.6	4942.8	4733.3	3788.3	2662.8	1773.5	1128.7	904.8	891.4
70°	4574.5	4573.4	4747.8	4988.2	4304.2	2893.9	1571.2	799.6	567.4	503.5	495.2
72.5°	4378.4	4375.3	4513.6	4303.1	3192.0	1583.6	661.3	428.1	354.9	337.4	337.4
75°	4056.6	4048.3	4152.5	3273.5	1795.1	596.3	350.8	294.0	278.6	275.5	275.5
77.5°	3306.5	3237.4	3073.4	2023.1	626.2	293.0	232.1	231.1	221.8	220.8	220.8
80°	1087.4	1087.4	1263.8	771.7	276.5	180.5	164.0	172.3	163.0	156.8	155.8
82.5°	177.4	244.5	347.7	220.8	149.6	112.5	101.1	107.3	112.5	89.8	89.8
85°	70.2	91.8	134.1	103.2	69.1	45.4	48.5	53.6	47.5	41.3	40.2
87.5°	26.8	33.0	47.5	24.8	14.4	8.3	5.2	5.2	4.1	4.1	4.1
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)