

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: P637476

Luminaire Tested: GWS-SA4C-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-830-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9994.3 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

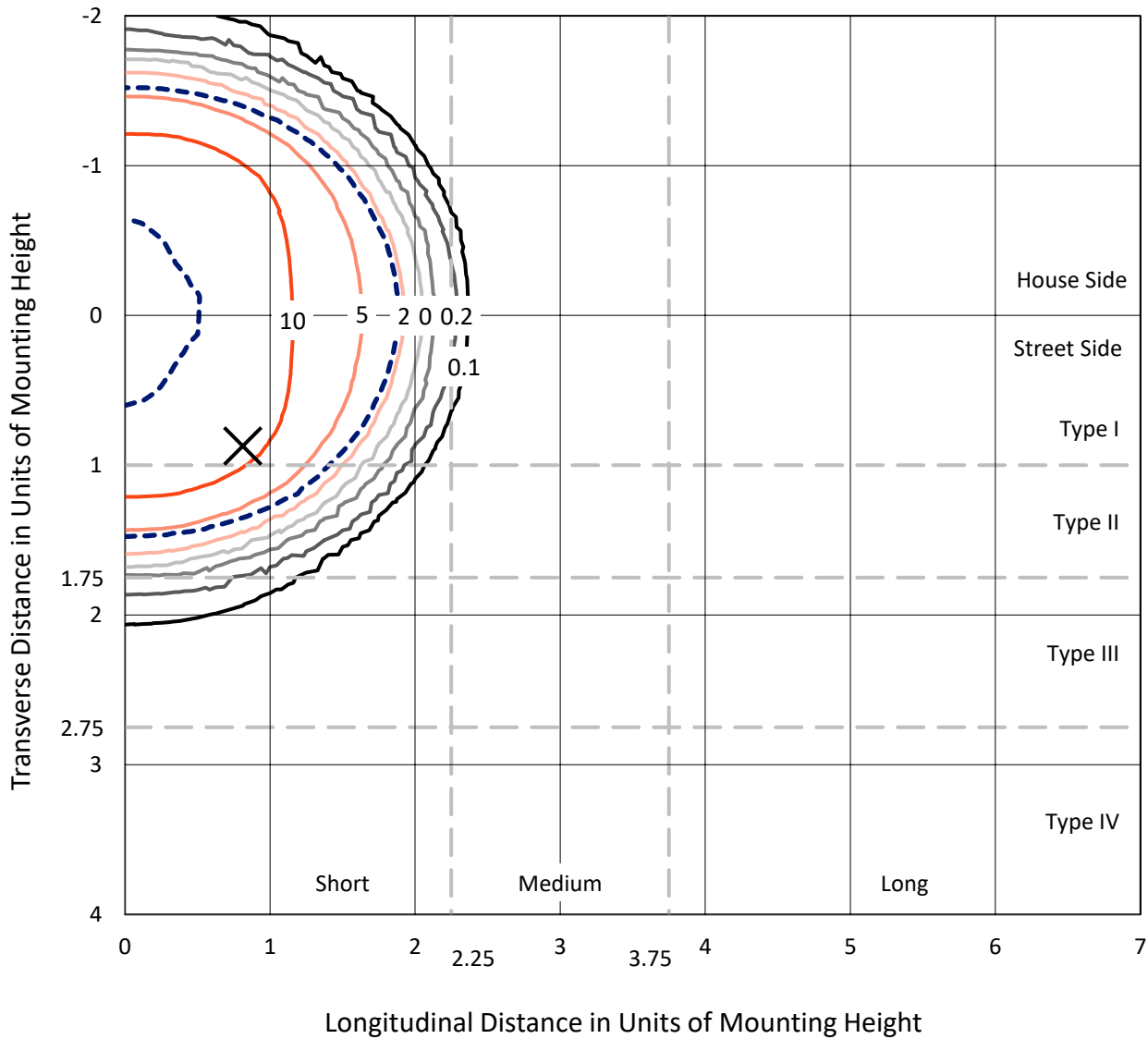
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

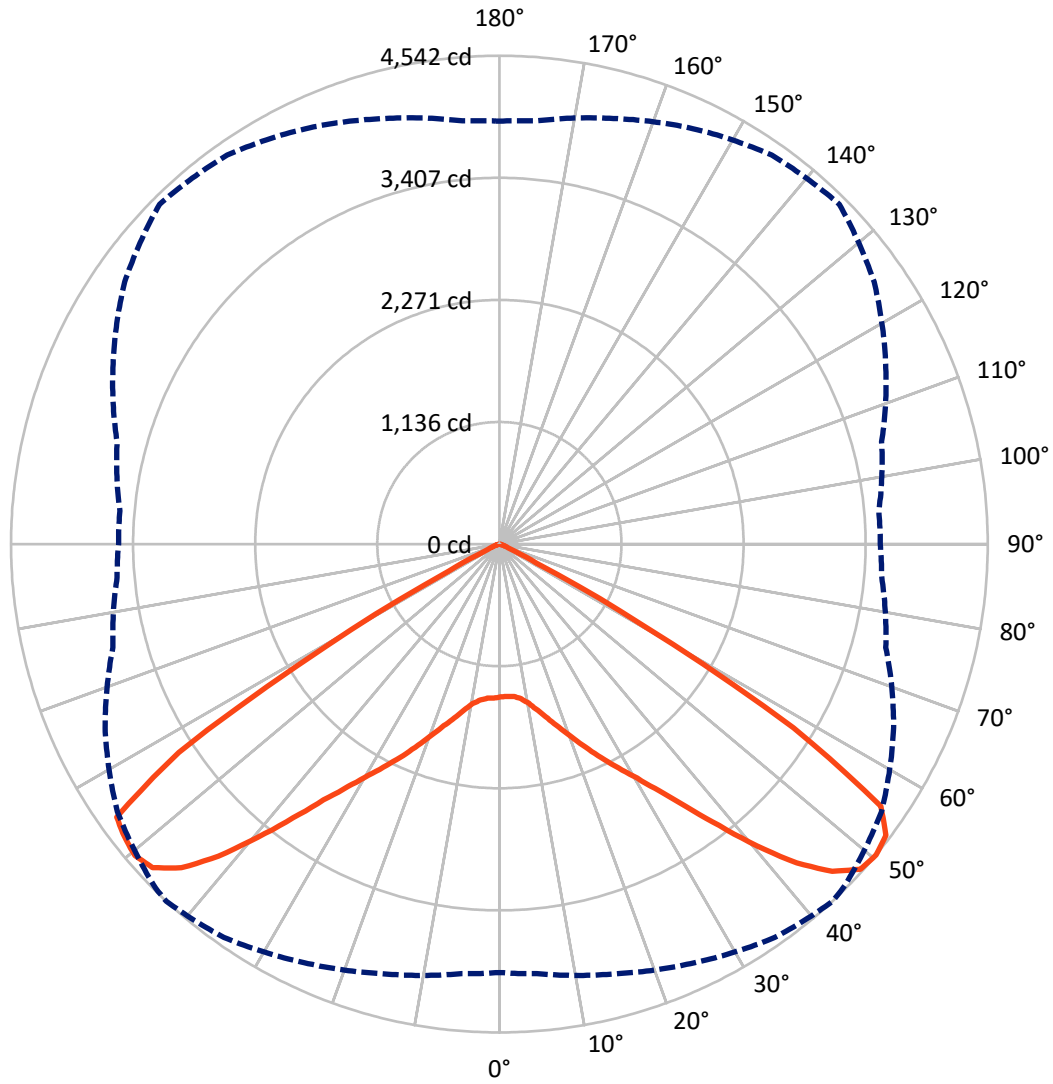
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 43-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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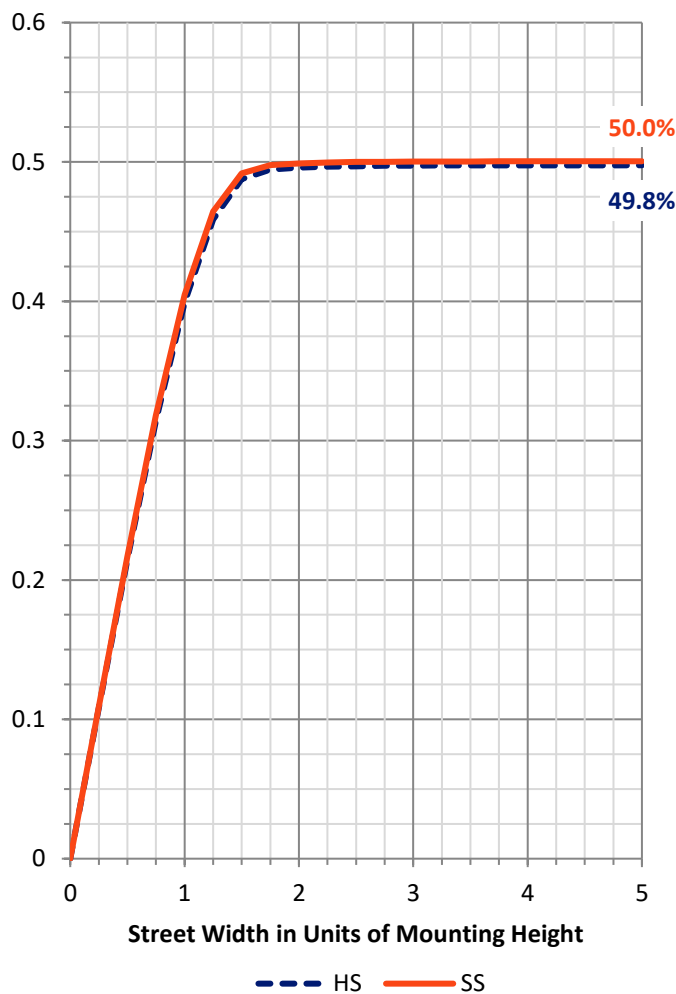
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4997.0	0.0	4997.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4997.3	0.0	4997.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	9994.3	0.0	9994.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.4
10°-20°	481.7	4.8
20°-30°	974.6	9.8
30°-40°	1808.3	18.1
40°-50°	3001.7	30.0
50°-60°	3063.3	30.7
60°-70°	502.4	5.0
70°-80°	22.0	0.2
80°-90°	0.3	0.0
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°	9994.3	100.0
0°-180°	9994.3	100.0

Coefficient of Utilization



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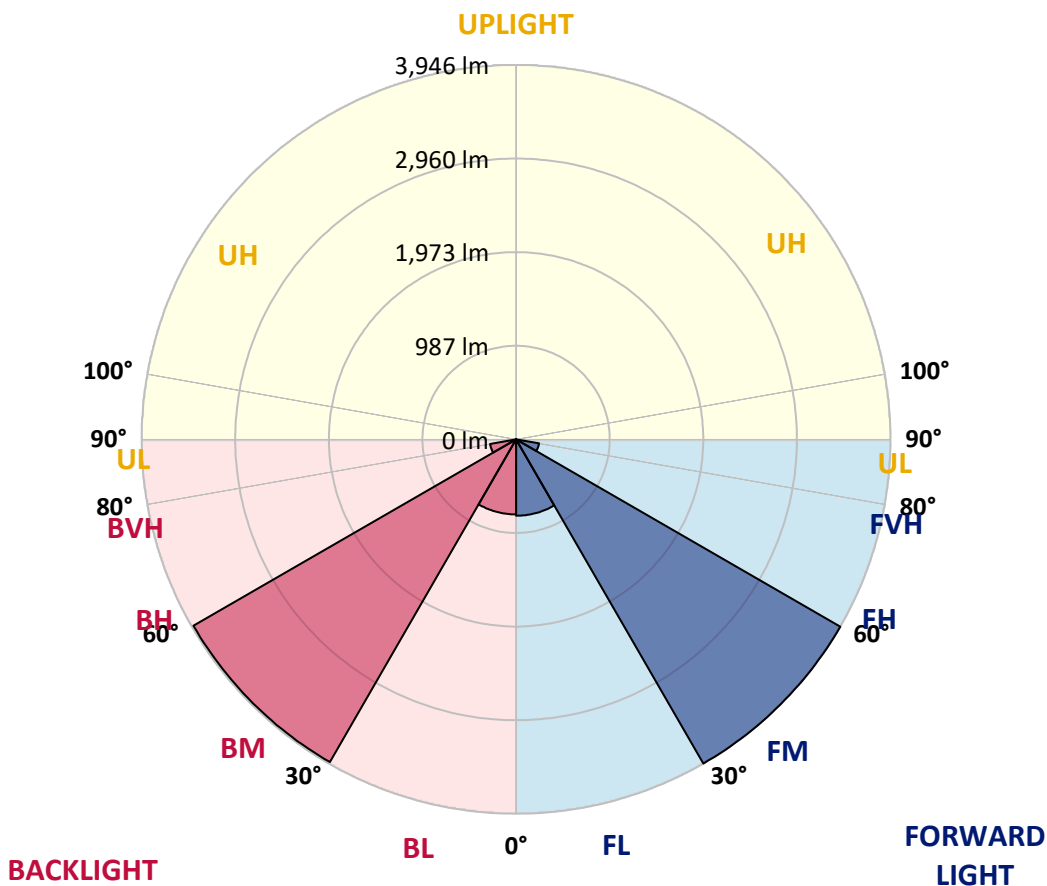
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	805.2	8.1			
FM (30°-60°)	3946.2	39.5			
FH (60°-80°)	245.8	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	791.2	7.9	B2/1000		
BM (30°-60°)	3927.1	39.3	B3/5000		
BH (60°-80°)	278.6	2.8	B1/500		G0/660
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	43°	45°	55°	65°	75°	85°
0°	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5
2.5°	1395.0	1398.3	1402.7	1407.2	1412.7	1418.2	1421.5	1431.5	1429.3	1438.1	1438.1
5°	1379.5	1382.8	1388.4	1398.3	1410.5	1422.6	1431.5	1451.4	1462.4	1480.1	1486.7
7.5°	1387.3	1391.7	1398.3	1413.8	1432.6	1451.4	1461.3	1493.4	1515.5	1548.7	1567.4
10°	1412.7	1417.1	1428.2	1454.7	1479.0	1505.5	1517.7	1558.6	1594.0	1639.3	1665.8
12.5°	1441.4	1447.0	1469.1	1508.9	1550.9	1586.2	1602.8	1648.1	1684.6	1735.5	1777.5
15°	1471.3	1480.1	1514.4	1573.0	1632.7	1680.2	1697.9	1746.5	1783.0	1837.2	1884.7
17.5°	1540.9	1550.9	1589.6	1652.6	1734.4	1789.6	1805.1	1855.9	1883.6	1920.1	1969.8
20°	1628.2	1647.0	1694.6	1770.8	1860.4	1913.4	1924.5	1974.2	1972.0	1987.5	2030.6
22.5°	1736.6	1749.8	1801.8	1892.4	1993.0	2051.6	2077.0	2098.0	2070.4	2057.1	2084.8
25°	1849.3	1864.8	1921.2	2020.7	2133.4	2200.8	2221.8	2238.4	2194.2	2144.5	2147.8
27.5°	1995.2	2006.3	2061.6	2167.7	2280.4	2356.7	2375.5	2404.2	2345.6	2266.0	2243.9
30°	2168.8	2179.8	2238.4	2350.1	2461.7	2526.9	2555.7	2591.0	2526.9	2427.4	2402.0
32.5°	2372.2	2383.2	2458.4	2573.3	2665.1	2735.8	2763.5	2801.1	2750.2	2638.6	2609.8
35°	2615.4	2622.0	2710.4	2835.3	2932.6	3001.1	3019.9	3064.1	3007.8	2896.1	2880.6
37.5°	2897.2	2905.0	3001.1	3145.9	3245.4	3321.7	3351.5	3363.7	3295.2	3170.3	3158.1
40°	3206.7	3232.2	3326.1	3482.0	3593.6	3689.8	3716.3	3675.4	3579.3	3409.0	3386.9
42.5°	3529.5	3551.6	3656.6	3825.8	3955.1	4053.5	4054.6	3966.1	3802.5	3567.1	3533.9
45°	3798.1	3807.0	3942.9	4113.2	4272.3	4342.0	4348.6	4188.3	3941.8	3658.8	3588.1
47.5°	3982.7	3997.1	4115.4	4279.0	4454.7	4517.7	4504.5	4304.4	4008.1	3718.5	3601.4
50°	3984.9	4009.2	4137.5	4295.5	4465.8	4542.0	4523.3	4337.5	4045.7	3720.7	3569.3
52.5°	3632.3	3672.1	3881.0	4109.8	4370.7	4501.1	4505.6	4380.7	4031.4	3685.4	3540.6
55°	2740.3	2783.4	3046.5	3436.7	3940.7	4304.4	4367.4	4329.8	4014.8	3700.8	3591.4
57.5°	1450.3	1417.1	1563.0	1949.9	2583.3	3226.6	3411.2	3711.9	3830.2	3719.6	3685.4
60°	316.1	337.1	448.8	604.6	1008.1	1517.7	1697.9	2213.0	2825.4	3097.3	3294.1
62.5°	136.0	133.8	139.3	158.1	231.0	384.7	469.8	767.1	1210.4	1662.5	1968.7
65°	111.6	112.7	117.2	117.2	109.4	110.5	116.1	175.8	283.0	396.8	532.8
67.5°	84.0	85.1	92.9	95.1	89.5	79.6	78.5	66.3	69.6	87.3	90.6
70°	53.1	53.1	57.5	59.7	59.7	55.3	54.2	47.5	46.4	53.1	59.7
72.5°	28.7	28.7	31.0	32.1	31.0	29.8	29.8	28.7	27.6	32.1	40.9
75°	12.2	12.2	13.3	13.3	12.2	12.2	12.2	12.2	12.2	14.4	22.1
77.5°	2.2	3.3	4.4	3.3	2.2	2.2	2.2	3.3	3.3	4.4	6.6
80°	1.1	1.1	2.2	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1
82.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5	1421.5
2.5°	1445.8	1433.7	1438.1	1440.3	1437.0	1434.8	1422.6	1419.3	1413.8	1405.0	1402.7
5°	1494.5	1484.5	1483.4	1476.8	1461.3	1442.5	1419.3	1409.4	1398.3	1387.3	1385.1
7.5°	1576.3	1564.1	1556.4	1534.3	1498.9	1469.1	1430.4	1409.4	1395.0	1380.6	1377.3
10°	1681.3	1666.9	1644.8	1603.9	1556.4	1513.3	1468.0	1440.3	1418.2	1398.3	1397.2
12.5°	1792.9	1777.5	1737.7	1685.7	1628.2	1588.4	1531.0	1492.3	1459.1	1429.3	1426.0
15°	1910.1	1891.3	1837.2	1775.3	1722.2	1681.3	1618.3	1556.4	1505.5	1462.4	1458.0
17.5°	1999.6	1976.4	1912.3	1865.9	1822.8	1780.8	1710.0	1628.2	1560.8	1508.9	1496.7
20°	2056.0	2033.9	1973.1	1947.7	1927.8	1898.0	1813.9	1728.8	1653.7	1589.6	1578.5
22.5°	2110.2	2083.7	2030.6	2030.6	2046.1	2033.9	1943.3	1846.0	1757.6	1683.5	1666.9
25°	2171.0	2150.0	2112.4	2143.4	2182.0	2180.9	2088.1	1966.5	1864.8	1781.9	1765.3
27.5°	2259.4	2238.4	2225.1	2283.7	2332.4	2329.1	2227.4	2095.8	1988.6	1906.8	1891.3
30°	2415.3	2395.4	2381.0	2451.8	2513.7	2490.4	2378.8	2251.7	2143.4	2050.5	2039.4
32.5°	2623.1	2602.1	2583.3	2654.0	2709.3	2679.5	2573.3	2454.0	2329.1	2238.4	2216.3
35°	2896.1	2851.9	2833.1	2917.1	2940.3	2907.2	2805.5	2700.5	2567.8	2463.9	2449.5
37.5°	3178.0	3126.0	3112.8	3185.7	3223.3	3211.2	3091.8	2982.3	2838.6	2723.7	2707.1
40°	3419.0	3371.4	3348.2	3462.1	3547.2	3554.9	3447.7	3314.0	3144.8	3025.5	2995.6
42.5°	3560.5	3519.6	3514.0	3690.9	3830.2	3929.7	3801.4	3663.3	3485.3	3350.4	3326.1
45°	3592.5	3566.0	3612.4	3844.5	4061.2	4242.5	4133.1	3987.1	3794.8	3652.2	3629.0
47.5°	3589.2	3580.4	3663.3	3924.1	4198.3	4421.6	4367.4	4202.7	4017.0	3867.8	3845.7
50°	3541.7	3542.8	3680.9	3963.9	4253.5	4470.2	4416.0	4263.5	4097.7	3950.7	3933.0
52.5°	3522.9	3516.2	3647.8	3951.8	4309.9	4448.1	4326.5	4155.2	3970.6	3789.3	3762.7
55°	3589.2	3572.6	3652.2	3941.8	4316.5	4435.9	4115.4	3744.0	3365.9	3151.5	3133.8
57.5°	3688.7	3671.0	3708.6	3868.9	3970.6	3688.7	3028.8	2429.6	2040.5	1875.8	1804.0
60°	3294.1	3281.9	3253.2	3059.7	2624.2	1979.8	1348.6	860.0	617.9	499.6	499.6
62.5°	2043.9	2027.3	1871.4	1390.6	1010.3	584.8	321.7	201.2	152.5	142.6	141.5
65°	573.7	570.4	472.0	333.8	212.2	131.5	116.1	118.3	116.1	112.7	111.6
67.5°	86.2	95.1	95.1	77.4	74.1	82.9	97.3	103.9	98.4	92.9	90.6
70°	55.3	59.7	57.5	49.7	53.1	61.9	69.6	70.7	67.4	61.9	60.8
72.5°	38.7	43.1	35.4	32.1	33.2	36.5	39.8	39.8	38.7	36.5	34.3
75°	23.2	23.2	16.6	15.5	15.5	16.6	16.6	18.8	18.8	17.7	16.6
77.5°	7.7	8.8	5.5	4.4	4.4	4.4	5.5	6.6	6.6	5.5	4.4
80°	1.1	2.2	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	1.1
82.5°	1.1	1.1	1.1	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)