

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: P639456

Luminaire Tested: GWS-SA5B-830-U-RW-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639456
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-SA5B-830-U-RW-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9141.8 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

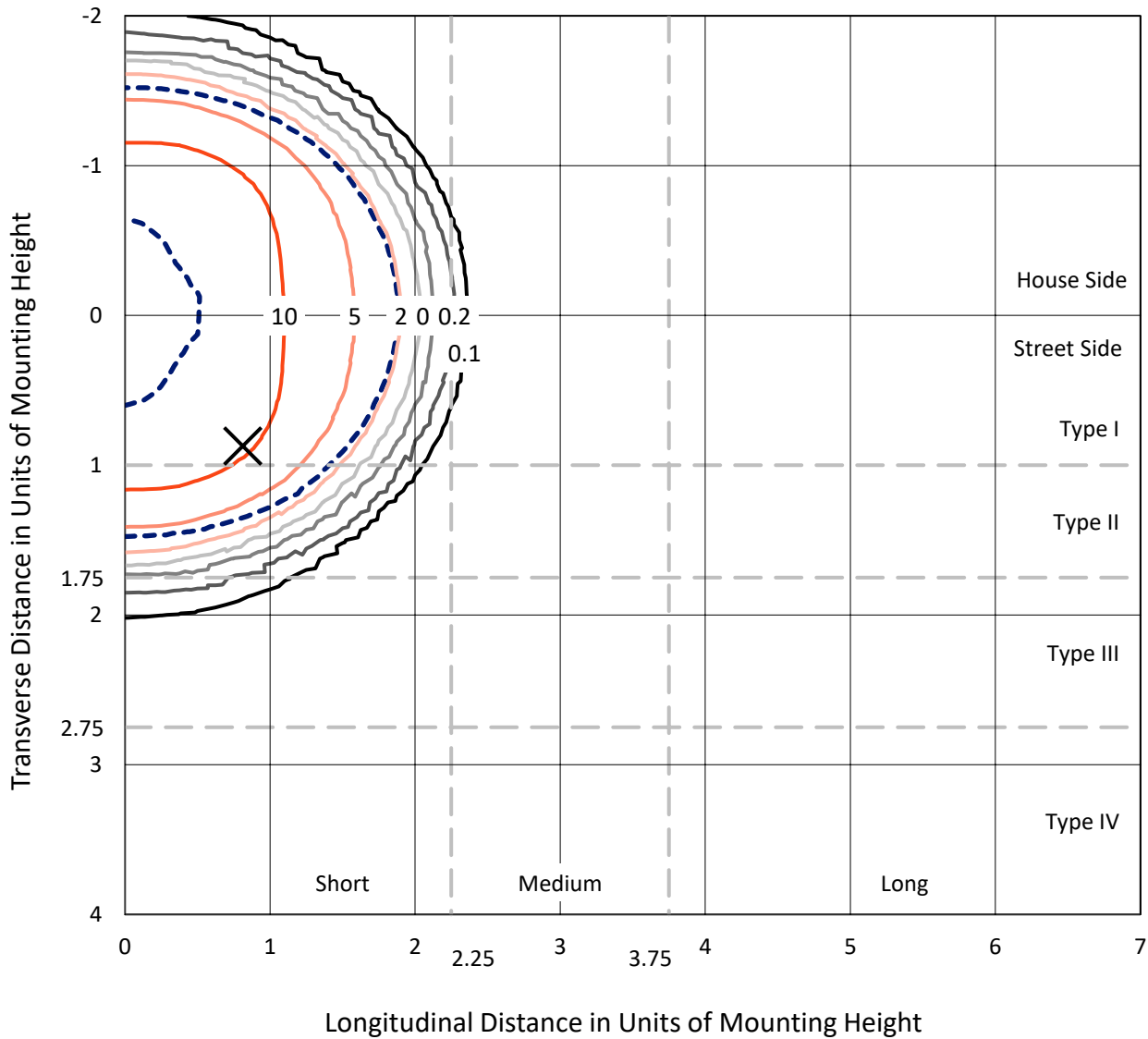
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

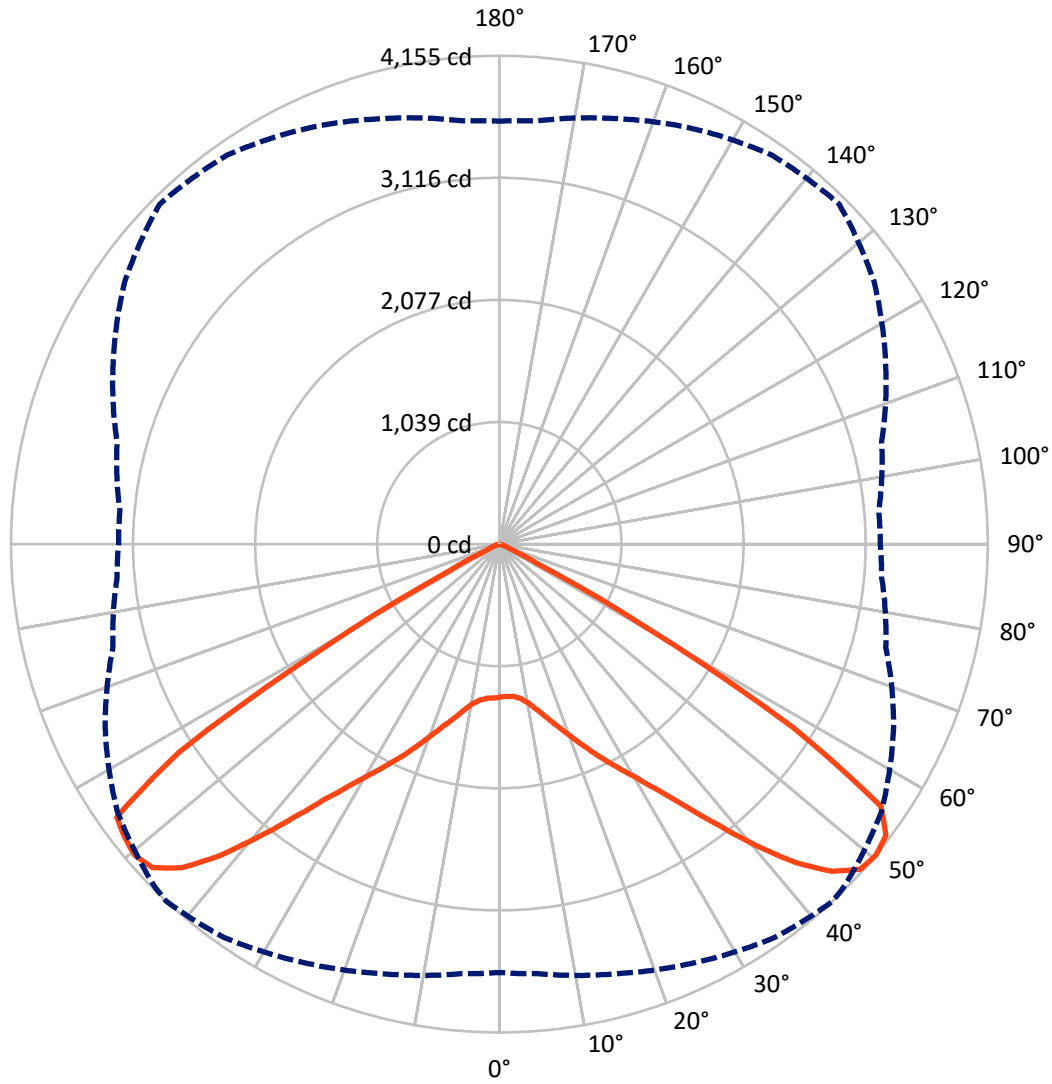
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.6 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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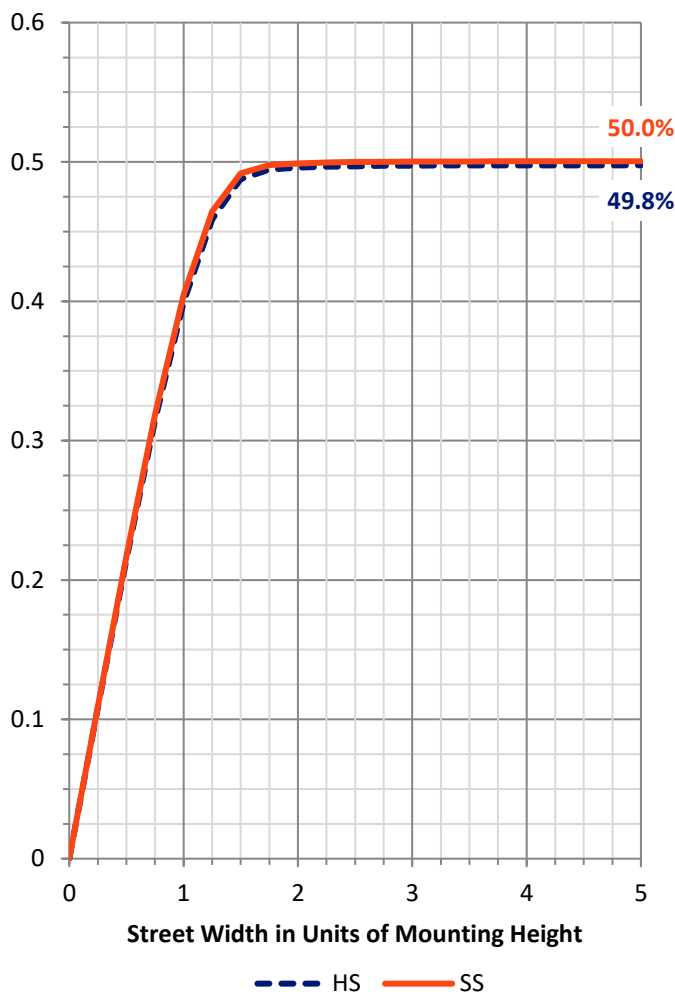
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4570.8	0.0	4570.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4571.0	0.0	4571.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9141.8	0.0	9141.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	1.4
10°-20°	440.6	4.8
20°-30°	891.5	9.8
30°-40°	1654.0	18.1
40°-50°	2745.6	30.0
50°-60°	2802.0	30.7
60°-70°	459.5	5.0
70°-80°	20.1	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°	9141.8	100.0
0°-180°	9141.8	100.0

Coefficient of Utilization



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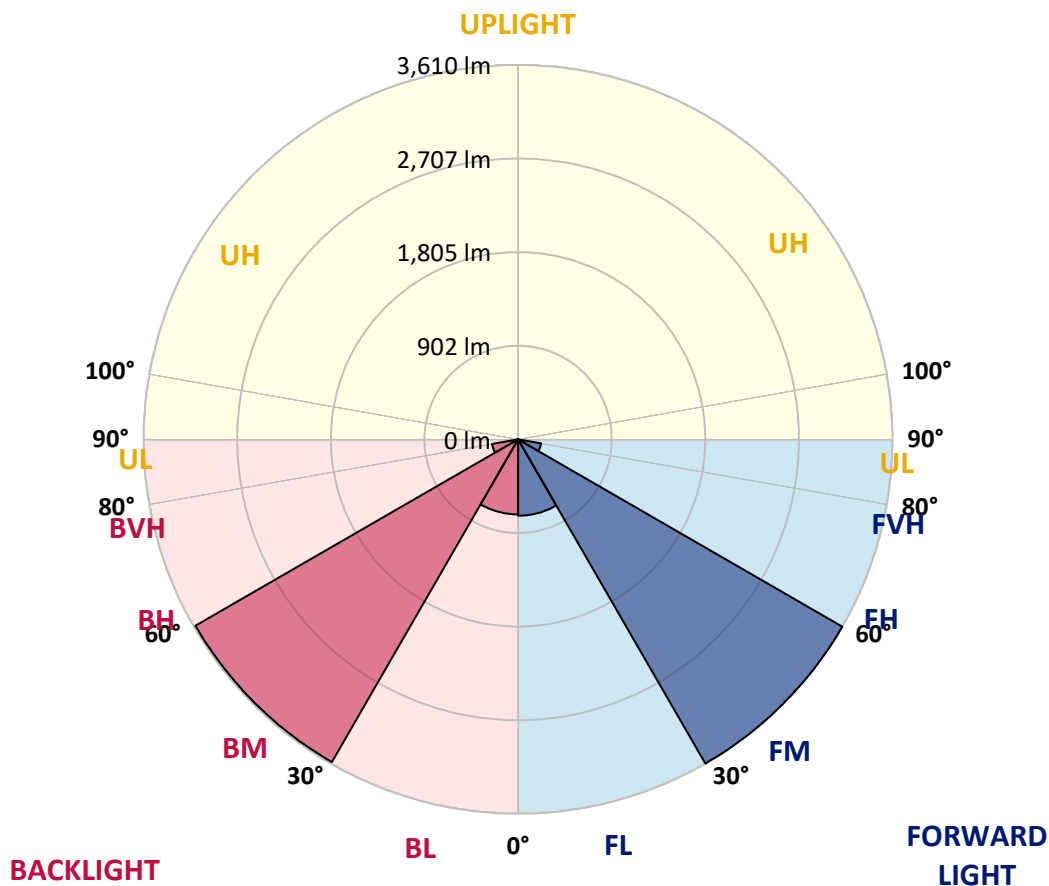
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	736.5	8.1			
FM (30°-60°)	3609.6	39.5			
FH (60°-80°)	224.8	2.5			G0/660
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	723.7	7.9	B2/1000		
BM (30°-60°)	3592.1	39.3	B3/5000		
BH (60°-80°)	254.8	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°	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3
2.5°	1276.0	1279.0	1283.1	1287.1	1292.2	1297.2	1300.3	1309.4	1307.4	1315.4	1315.4
5°	1261.9	1264.9	1269.9	1279.0	1290.2	1301.3	1309.4	1327.6	1337.7	1353.9	1359.9
7.5°	1268.9	1273.0	1279.0	1293.2	1310.4	1327.6	1336.7	1366.0	1386.2	1416.6	1433.7
10°	1292.2	1296.2	1306.3	1330.6	1352.9	1377.1	1388.2	1425.7	1458.0	1499.5	1523.7
12.5°	1318.5	1323.5	1343.8	1380.2	1418.6	1450.9	1466.1	1507.6	1540.9	1587.4	1625.9
15°	1345.8	1353.9	1385.2	1438.8	1493.4	1536.9	1553.1	1597.5	1630.9	1680.5	1723.9
17.5°	1409.5	1418.6	1454.0	1511.6	1586.4	1637.0	1651.1	1697.6	1722.9	1756.3	1801.8
20°	1489.4	1506.5	1550.0	1619.8	1701.7	1750.2	1760.3	1805.8	1803.8	1818.0	1857.4
22.5°	1588.4	1600.6	1648.1	1731.0	1823.0	1876.6	1899.9	1919.1	1893.8	1881.7	1906.9
25°	1691.6	1705.7	1757.3	1848.3	1951.4	2013.1	2032.3	2047.5	2007.0	1961.5	1964.6
27.5°	1825.0	1835.1	1885.7	1982.8	2085.9	2155.7	2172.9	2199.1	2145.6	2072.8	2052.5
30°	1983.8	1993.9	2047.5	2149.6	2251.7	2311.4	2337.7	2370.0	2311.4	2220.4	2197.1
32.5°	2169.8	2179.9	2248.7	2353.8	2437.8	2502.5	2527.8	2562.1	2515.6	2413.5	2387.2
35°	2392.3	2398.3	2479.2	2593.5	2682.5	2745.1	2762.3	2802.8	2751.2	2649.1	2634.9
37.5°	2650.1	2657.2	2745.1	2877.6	2968.6	3038.4	3065.7	3076.8	3014.1	2899.8	2888.7
40°	2933.2	2956.5	3042.4	3185.0	3287.1	3375.1	3399.3	3361.9	3273.9	3118.2	3098.0
42.5°	3228.4	3248.7	3344.7	3499.4	3617.7	3707.7	3708.7	3627.8	3478.2	3262.8	3232.5
45°	3474.1	3482.2	3606.6	3762.3	3907.9	3971.6	3977.7	3831.1	3605.6	3346.7	3282.0
47.5°	3643.0	3656.1	3764.3	3914.0	4074.7	4132.4	4120.2	3937.2	3666.3	3401.3	3294.2
50°	3645.0	3667.3	3784.6	3929.1	4084.8	4154.6	4137.4	3967.6	3700.6	3403.4	3264.8
52.5°	3322.5	3358.9	3550.0	3759.3	3997.9	4117.2	4121.2	4007.0	3687.5	3371.0	3238.6
55°	2506.5	2546.0	2786.6	3143.5	3604.6	3937.2	3994.9	3960.5	3672.3	3385.2	3285.1
57.5°	1326.6	1296.2	1429.7	1783.6	2362.9	2951.4	3120.3	3395.3	3503.5	3402.4	3371.0
60°	289.2	308.4	410.5	553.1	922.1	1388.2	1553.1	2024.2	2584.4	2833.1	3013.1
62.5°	124.4	122.3	127.4	144.6	211.3	351.9	429.7	701.7	1107.2	1520.7	1800.8
65°	102.1	103.1	107.2	107.2	100.1	101.1	106.2	160.8	258.8	363.0	487.4
67.5°	76.8	77.9	84.9	87.0	81.9	72.8	71.8	60.7	63.7	79.9	82.9
70°	48.5	48.5	52.6	54.6	54.6	50.6	49.5	43.5	42.5	48.5	54.6
72.5°	26.3	26.3	28.3	29.3	28.3	27.3	27.3	26.3	25.3	29.3	37.4
75°	11.1	11.1	12.1	12.1	11.1	11.1	11.1	11.1	11.1	13.1	20.2
77.5°	2.0	3.0	4.0	3.0	2.0	2.0	2.0	3.0	3.0	4.0	6.1
80°	1.0	1.0	2.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
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°	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3	1300.3
2.5°	1322.5	1311.4	1315.4	1317.5	1314.4	1312.4	1301.3	1298.3	1293.2	1285.1	1283.1
5°	1367.0	1357.9	1356.9	1350.8	1336.7	1319.5	1298.3	1289.2	1279.0	1268.9	1266.9
7.5°	1441.8	1430.7	1423.6	1403.4	1371.1	1343.8	1308.4	1289.2	1276.0	1262.9	1259.8
10°	1537.9	1524.7	1504.5	1467.1	1423.6	1384.2	1342.7	1317.5	1297.2	1279.0	1278.0
12.5°	1640.0	1625.9	1589.5	1541.9	1489.4	1453.0	1400.4	1365.0	1334.7	1307.4	1304.3
15°	1747.2	1730.0	1680.5	1623.8	1575.3	1537.9	1480.3	1423.6	1377.1	1337.7	1333.6
17.5°	1829.1	1807.8	1749.2	1706.7	1667.3	1628.9	1564.2	1489.4	1427.7	1380.2	1369.0
20°	1880.6	1860.4	1804.8	1781.6	1763.4	1736.1	1659.2	1581.4	1512.6	1454.0	1443.9
22.5°	1930.2	1905.9	1857.4	1857.4	1871.5	1860.4	1777.5	1688.5	1607.7	1539.9	1524.7
25°	1985.8	1966.6	1932.2	1960.5	1995.9	1994.9	1910.0	1798.7	1705.7	1629.9	1614.7
27.5°	2066.7	2047.5	2035.3	2088.9	2133.4	2130.4	2037.4	1917.0	1819.0	1744.1	1730.0
30°	2209.3	2191.1	2177.9	2242.6	2299.2	2278.0	2175.9	2059.6	1960.5	1875.6	1865.5
32.5°	2399.3	2380.1	2362.9	2427.7	2478.2	2450.9	2353.8	2244.6	2130.4	2047.5	2027.3
35°	2649.1	2608.6	2591.5	2668.3	2689.5	2659.2	2566.2	2470.1	2348.8	2253.7	2240.6
37.5°	2906.9	2859.4	2847.3	2914.0	2948.4	2937.2	2828.1	2728.0	2596.5	2491.4	2476.2
40°	3127.3	3083.9	3062.6	3166.8	3244.6	3251.7	3153.6	3031.3	2876.6	2767.4	2740.1
42.5°	3256.8	3219.3	3214.3	3376.1	3503.5	3594.5	3477.2	3350.8	3188.0	3064.6	3042.4
45°	3286.1	3261.8	3304.3	3516.6	3714.8	3880.6	3780.5	3647.0	3471.1	3340.7	3319.4
47.5°	3283.0	3275.0	3350.8	3589.4	3840.2	4044.4	3994.9	3844.2	3674.3	3537.8	3517.6
50°	3239.6	3240.6	3367.0	3625.8	3890.7	4088.9	4039.4	3899.8	3748.2	3613.7	3597.5
52.5°	3222.4	3216.3	3336.6	3614.7	3942.3	4068.7	3957.5	3800.7	3631.9	3466.1	3441.8
55°	3283.0	3267.9	3340.7	3605.6	3948.4	4057.6	3764.3	3424.6	3078.8	2882.7	2866.5
57.5°	3374.0	3357.9	3392.2	3538.9	3631.9	3374.0	2770.4	2222.4	1866.5	1715.8	1650.1
60°	3013.1	3002.0	2975.7	2798.7	2400.4	1810.9	1233.5	786.6	565.2	457.0	457.0
62.5°	1869.5	1854.4	1711.8	1272.0	924.1	534.9	294.2	184.0	139.5	130.4	129.4
65°	524.8	521.7	431.7	305.4	194.1	120.3	106.2	108.2	106.2	103.1	102.1
67.5°	78.9	87.0	87.0	70.8	67.7	75.8	89.0	95.0	90.0	84.9	82.9
70°	50.6	54.6	52.6	45.5	48.5	56.6	63.7	64.7	61.7	56.6	55.6
72.5°	35.4	39.4	32.4	29.3	30.3	33.4	36.4	36.4	35.4	33.4	31.3
75°	21.2	21.2	15.2	14.2	14.2	15.2	15.2	17.2	17.2	16.2	15.2
77.5°	7.1	8.1	5.1	4.0	4.0	4.0	5.1	6.1	6.1	5.1	4.0
80°	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0
82.5°	1.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
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

(END OF REPORT)