

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: P632028

Luminaire Tested: GWS-SA2B-830-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-830-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

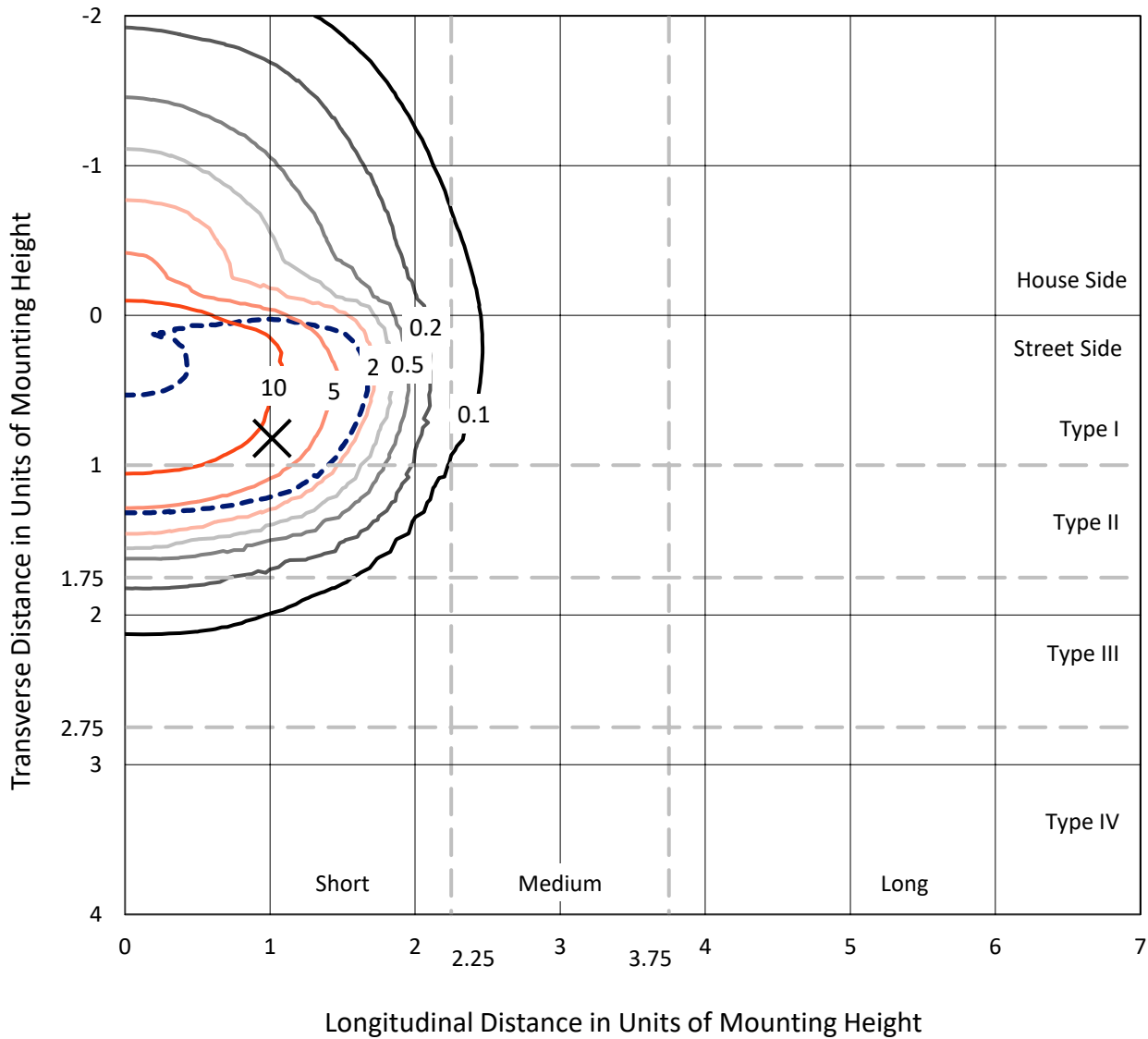
Lumens per Lamp: N/A  
Luminaire Lumens: 4973.5 lumens  
Efficiency: N/A  
Efficacy: 107.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

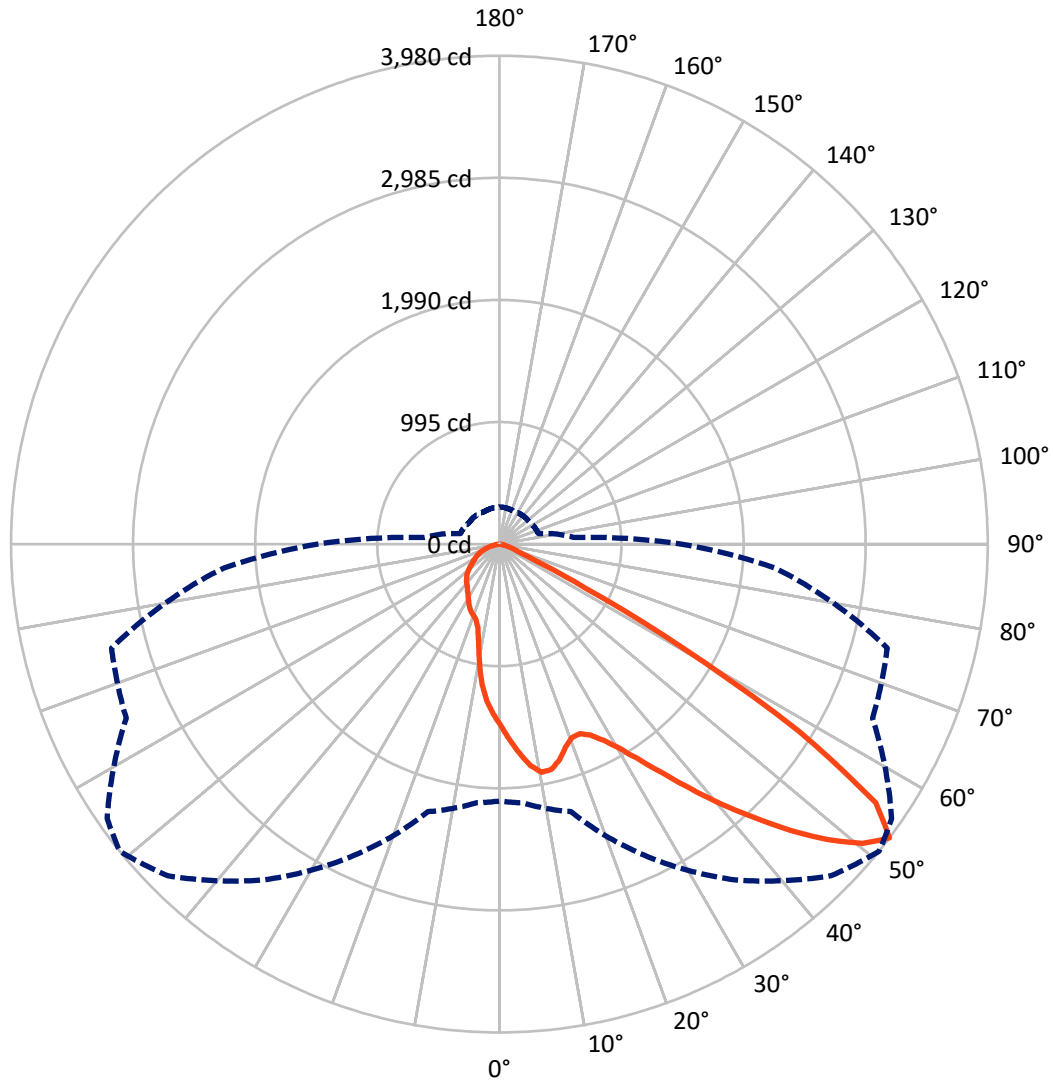
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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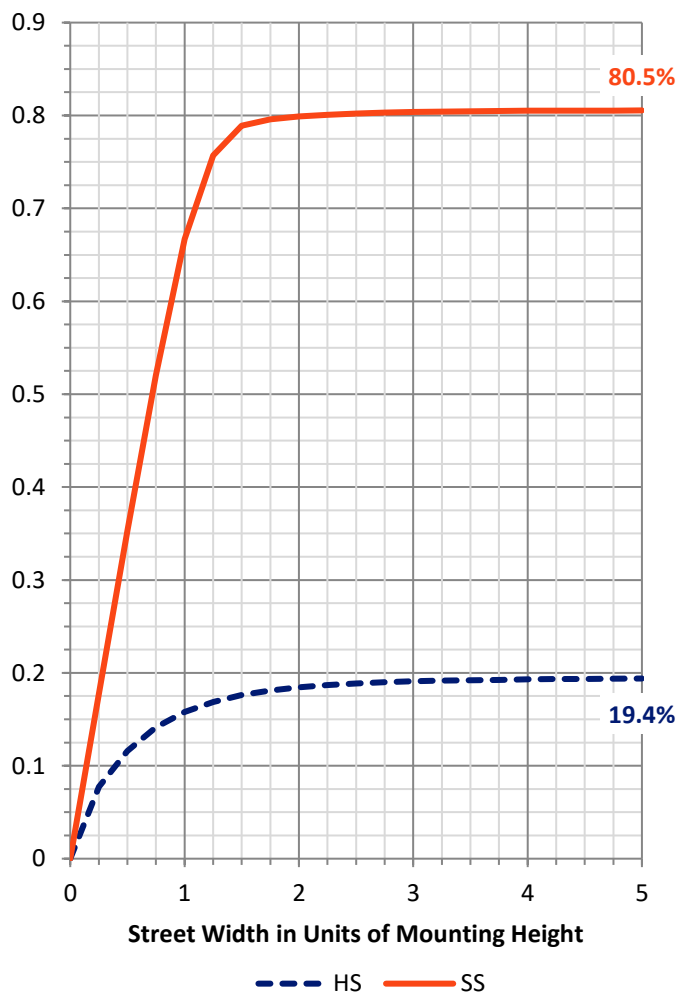
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	969.1	0.0	969.1
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	4004.5	0.0	4004.5
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	4973.5	0.0	4973.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.2	2.8
10°-20°	359.1	7.2
20°-30°	583.8	11.7
30°-40°	925.2	18.6
40°-50°	1395.4	28.1
50°-60°	1207.1	24.3
60°-70°	273.7	5.5
70°-80°	80.7	1.6
80°-90°	10.4	0.2
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°	4973.5	100.0
0°-180°	4973.5	100.0

**Coefficient of Utilization**



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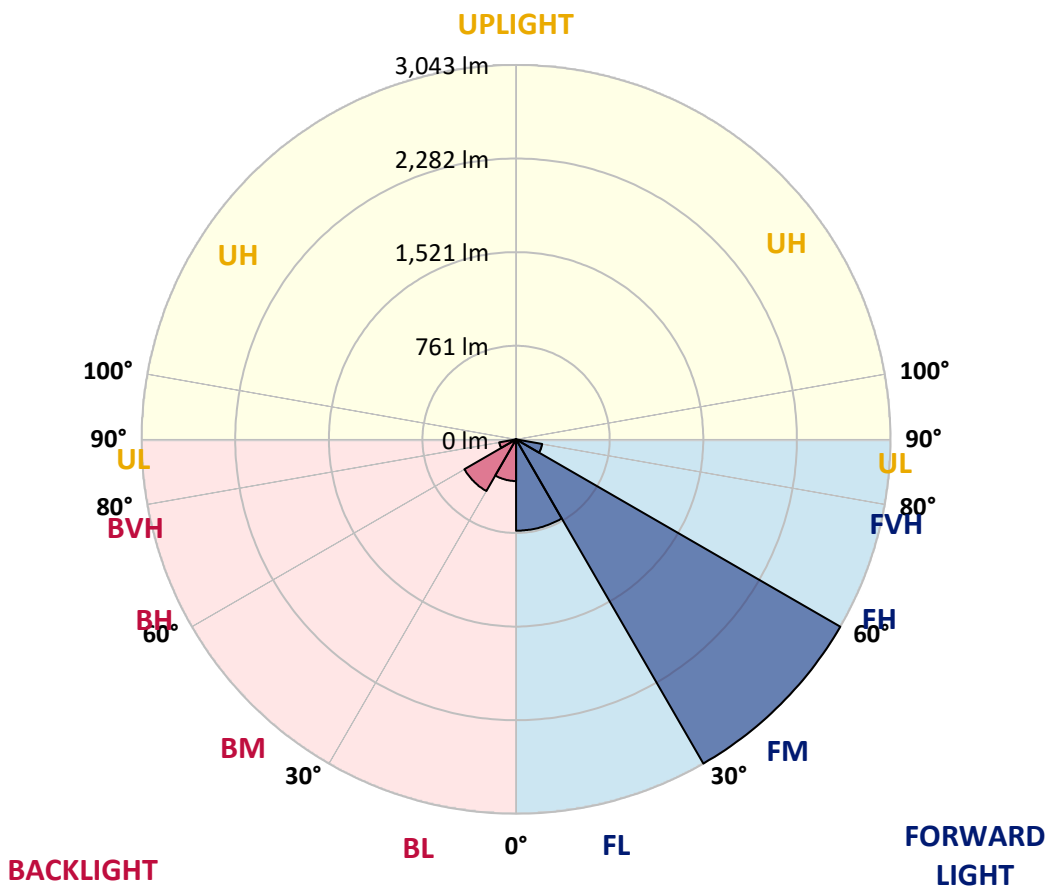
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.3	14.9			
FM (30°-60°)	3042.9	61.2			
FH (60°-80°)	215.4	4.3			G0/660
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	338.7	6.8	B1/500		
BM (30°-60°)	484.8	9.7	B1/1000		
BH (60°-80°)	139.0	2.8	B1/500		G1/500
BVH (80°-90°)	6.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1650.2	1659.7	1645.1	1639.6	1630.6	1614.9	1596.8	1591.7	1552.8	1527.2	1498.5
5°	1816.1	1821.2	1809.4	1797.6	1775.2	1747.3	1712.3	1704.9	1634.1	1575.6	1514.7
7.5°	1853.0	1851.1	1861.3	1868.0	1865.2	1854.2	1823.2	1808.6	1724.1	1631.4	1541.4
10°	1706.8	1695.8	1733.6	1778.4	1832.2	1894.3	1890.8	1889.6	1816.1	1706.4	1575.6
12.5°	1513.1	1507.6	1538.2	1594.4	1696.2	1833.8	1885.3	1925.4	1899.0	1778.0	1613.7
15°	1402.3	1400.3	1421.1	1461.6	1542.6	1716.3	1826.3	1905.7	1970.2	1854.6	1654.2
17.5°	1382.2	1383.4	1390.5	1413.7	1471.8	1614.9	1742.2	1853.0	2025.6	1938.7	1704.9
20°	1440.8	1448.6	1436.4	1440.0	1471.4	1578.3	1684.8	1800.0	2060.9	2023.2	1759.5
22.5°	1570.9	1568.1	1541.4	1525.7	1526.1	1600.7	1678.5	1775.2	2084.1	2105.4	1809.0
25°	1718.2	1715.1	1683.3	1648.3	1626.3	1661.6	1723.7	1801.6	2105.0	2180.4	1848.7
27.5°	1892.3	1882.5	1847.1	1802.3	1753.6	1768.9	1811.0	1872.7	2137.2	2254.3	1875.0
30°	2060.9	2072.3	2021.6	1968.6	1917.1	1907.7	1932.0	1987.8	2202.8	2340.8	1906.5
32.5°	2284.6	2280.6	2224.4	2155.3	2081.8	2074.7	2094.0	2145.0	2320.7	2460.2	1954.4
35°	2555.3	2556.1	2476.4	2382.8	2278.3	2259.4	2291.6	2341.2	2496.4	2622.2	2030.3
37.5°	2836.7	2835.6	2766.0	2659.9	2517.2	2490.5	2527.4	2564.4	2716.1	2842.6	2148.2
40°	3034.0	3041.9	3009.3	2953.5	2818.3	2753.0	2785.7	2811.2	2955.0	3102.0	2303.4
42.5°	3146.0	3157.8	3164.9	3198.3	3127.2	3057.6	3045.8	3059.2	3168.4	3342.9	2449.2
45°	3170.0	3185.7	3237.2	3361.0	3388.5	3368.9	3330.4	3298.1	3327.6	3513.9	2544.7
47.5°	3064.3	3091.8	3201.8	3418.4	3579.1	3640.8	3598.0	3548.9	3419.6	3557.9	2534.9
50°	2645.3	2677.6	2925.6	3301.3	3606.3	3831.1	3835.0	3762.3	3408.6	3431.0	2411.5
52.5°	2094.3	2116.4	2258.2	2798.6	3340.2	3823.2	3980.4	3902.6	3355.5	3272.2	2257.1
55°	1251.7	1287.1	1419.5	1846.4	2602.1	3388.5	3723.4	3761.1	3329.6	3139.0	2151.7
57.5°	422.5	439.8	566.3	815.5	1533.5	2481.1	2876.8	3030.1	3022.6	2935.4	1946.2
60°	201.2	205.2	230.7	309.3	613.9	1296.5	1702.9	1879.8	2040.9	2057.0	1210.9
62.5°	153.3	155.6	168.6	185.5	246.8	546.3	780.5	915.7	978.2	839.5	441.0
65°	128.1	130.1	139.9	150.5	167.8	236.6	299.5	345.5	311.3	242.5	210.3
67.5°	106.9	108.5	115.9	127.3	139.1	158.4	166.2	171.0	179.2	201.2	193.4
70°	83.7	85.3	93.1	103.0	114.4	119.1	126.5	131.3	147.8	176.1	175.3
72.5°	64.5	66.4	70.7	77.0	86.5	91.2	99.4	104.9	114.4	137.2	146.6
75°	47.2	48.3	52.3	54.2	55.4	54.2	62.5	68.8	81.4	90.0	92.4
77.5°	19.3	21.6	20.8	20.8	24.8	29.9	34.2	38.1	46.8	51.9	52.3
80°	7.9	8.6	10.2	11.4	13.8	17.7	20.4	22.0	25.9	29.1	31.4
82.5°	4.7	5.1	5.9	6.3	7.9	10.2	11.8	13.0	16.1	19.3	20.4
85°	2.4	2.4	2.8	3.1	3.9	4.7	5.5	6.3	8.3	10.2	11.4
87.5°	0.4	0.4	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.1	3.9
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°	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9	1480.9
2.5°	1481.6	1460.4	1435.7	1416.0	1393.2	1376.3	1352.3	1337.4	1323.3	1311.5	1302.8
5°	1483.2	1447.5	1396.0	1350.4	1303.2	1258.4	1212.4	1175.1	1141.7	1113.8	1111.4
7.5°	1492.3	1440.8	1360.2	1280.4	1188.5	1099.6	1010.8	938.5	883.5	854.8	848.9
10°	1507.6	1440.0	1323.7	1196.3	1039.5	896.5	791.1	736.1	704.3	692.9	688.9
12.5°	1523.7	1438.0	1276.9	1077.6	859.9	734.5	676.8	670.1	676.0	676.8	676.4
15°	1543.3	1436.8	1217.9	938.5	728.6	659.5	663.4	677.5	691.3	694.4	694.4
17.5°	1567.3	1434.1	1137.8	802.5	646.5	644.9	665.8	684.6	697.6	699.9	699.9
20°	1592.5	1427.0	1039.1	691.7	613.1	635.9	658.3	672.8	681.9	685.0	685.4
22.5°	1609.8	1408.2	925.5	609.6	592.3	618.6	634.7	649.6	649.6	641.8	639.4
25°	1613.3	1367.7	802.5	553.4	567.5	591.9	608.4	599.7	583.6	577.3	576.9
27.5°	1600.3	1308.7	681.1	513.3	537.6	562.0	559.3	546.7	539.6	533.3	535.7
30°	1584.6	1238.0	575.8	480.3	503.1	527.0	517.6	513.3	508.2	501.1	502.7
32.5°	1574.0	1159.0	494.8	454.7	479.9	483.8	490.5	490.1	485.4	472.0	471.2
35°	1577.1	1079.2	440.6	433.9	460.6	459.0	471.6	469.3	436.6	418.2	417.0
37.5°	1602.3	1002.6	408.7	417.4	430.0	439.8	450.8	422.5	411.1	399.3	400.1
40°	1650.2	931.4	391.4	408.3	411.5	426.0	400.5	400.1	395.0	384.4	384.0
42.5°	1704.5	871.3	379.6	404.0	399.7	402.4	375.3	378.5	378.1	371.4	369.4
45°	1737.5	815.9	370.2	387.9	389.1	361.6	353.3	356.9	358.8	355.3	354.9
47.5°	1703.3	752.2	360.4	363.1	373.4	343.1	332.9	333.3	336.8	337.2	335.6
50°	1607.4	681.1	348.6	341.9	335.2	323.8	314.4	312.4	316.0	319.5	320.7
52.5°	1483.6	613.1	328.9	318.7	303.0	303.0	298.7	292.4	297.1	301.8	303.4
55°	1392.8	562.8	301.0	289.6	272.4	278.3	277.5	272.0	278.3	281.8	283.0
57.5°	1206.9	452.4	264.9	261.4	246.8	253.9	255.5	248.4	245.2	246.0	247.2
60°	716.5	292.0	238.9	238.6	225.6	233.8	238.6	231.5	222.1	223.2	224.8
62.5°	321.5	223.2	206.3	204.8	204.4	215.0	220.1	213.4	200.0	201.2	202.8
65°	202.4	193.0	179.2	179.2	185.5	194.5	198.5	193.0	177.6	175.7	177.2
67.5°	187.9	179.6	165.5	162.7	165.8	173.3	173.7	163.1	154.1	152.5	152.5
70°	168.6	162.3	148.6	143.1	141.9	141.5	140.3	137.6	131.7	130.1	130.9
72.5°	139.5	135.2	126.5	120.7	117.5	117.1	112.4	110.0	104.9	104.1	103.8
75°	92.4	93.5	93.5	92.8	90.0	88.8	83.7	81.4	75.5	73.1	72.7
77.5°	54.6	55.8	57.4	57.8	57.4	57.4	52.7	49.9	44.0	40.9	40.1
80°	33.4	34.2	35.0	36.2	34.6	33.4	29.1	26.3	23.6	21.6	21.2
82.5°	21.6	22.4	22.8	23.6	22.8	21.2	17.7	16.1	14.1	12.6	12.2
85°	12.2	12.6	13.4	13.4	12.2	11.0	9.0	7.9	6.7	5.9	5.9
87.5°	4.3	4.3	4.3	4.7	3.9	3.5	2.4	1.6	1.2	1.2	1.2
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)