

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: P633033

Luminaire Tested: GWS-SA2D-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633033
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8908 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

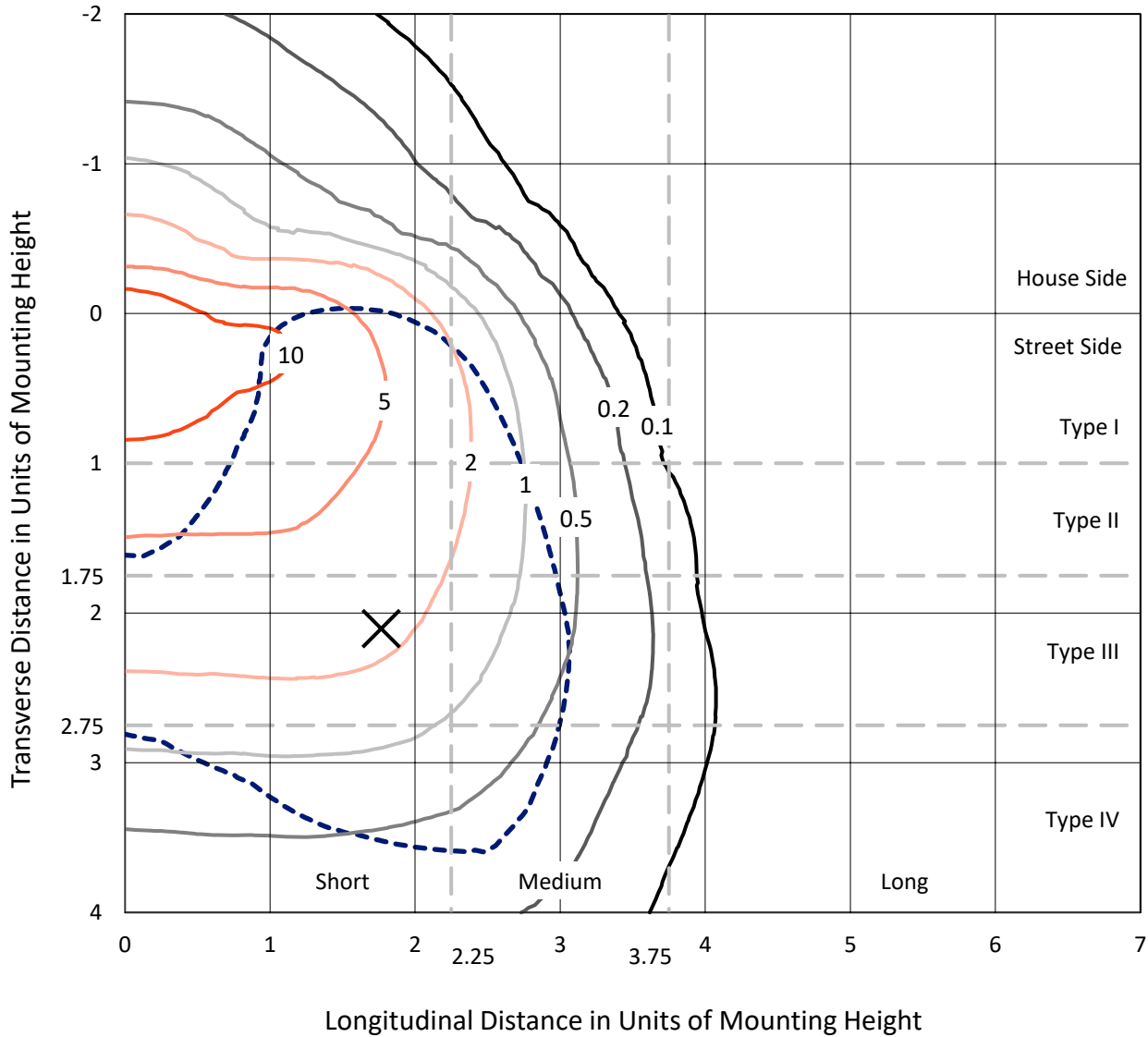
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

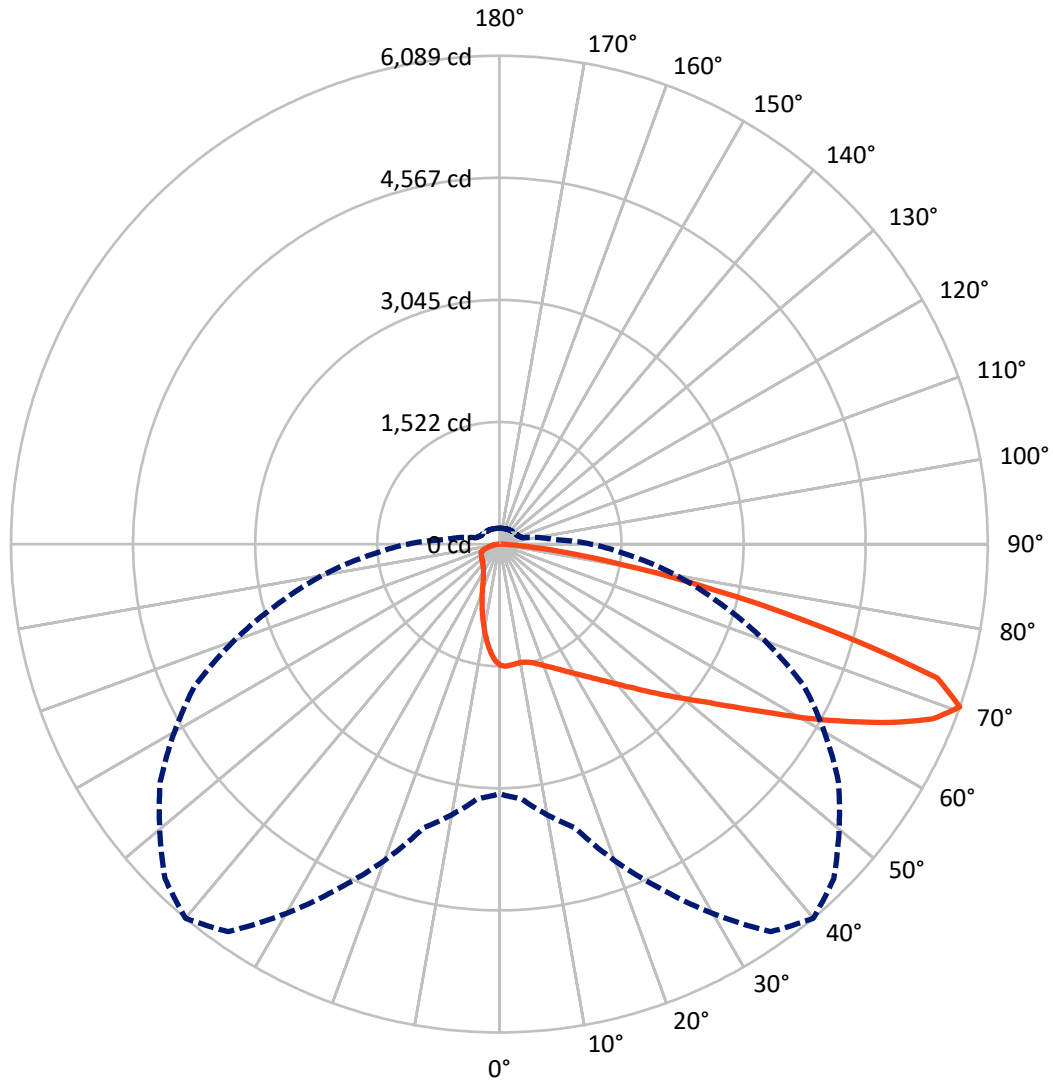
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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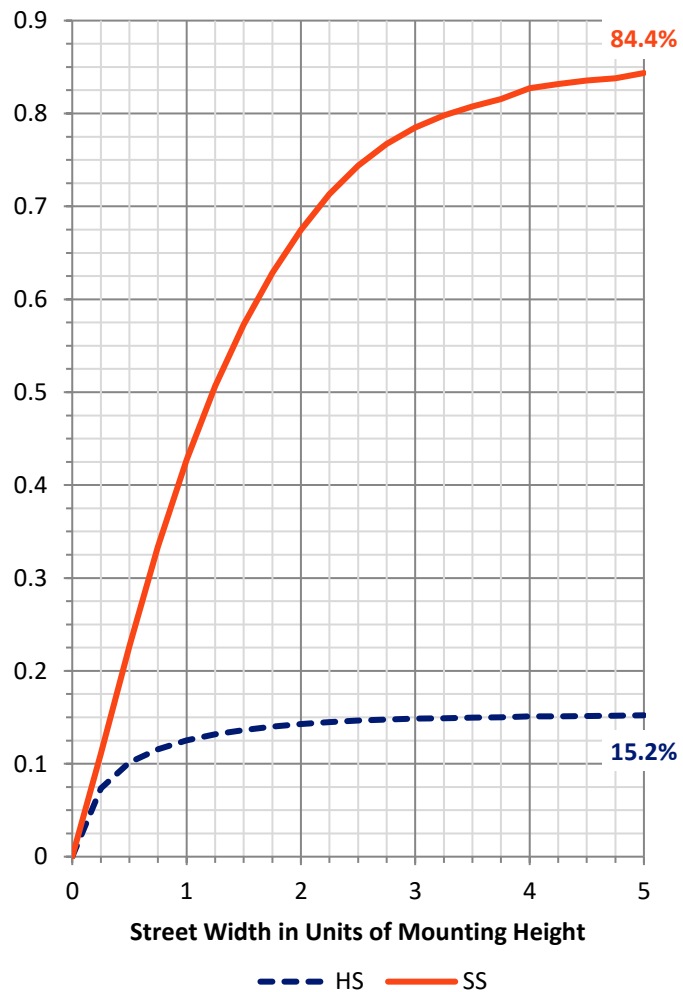
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1372.1	0.0	1372.1
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	7535.9	0.0	7535.9
	% Fixture	84.6	0.0	84.6
Total	Lumens	8908.0	0.0	8908.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	1.5
10°-20°	348.3	3.9
20°-30°	546.9	6.1
30°-40°	822.3	9.2
40°-50°	1269.3	14.2
50°-60°	1885.0	21.2
60°-70°	2376.0	26.7
70°-80°	1374.0	15.4
80°-90°	152.5	1.7
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°	8908.0	100.0
0°-180°	8908.0	100.0

Coefficient of Utilization



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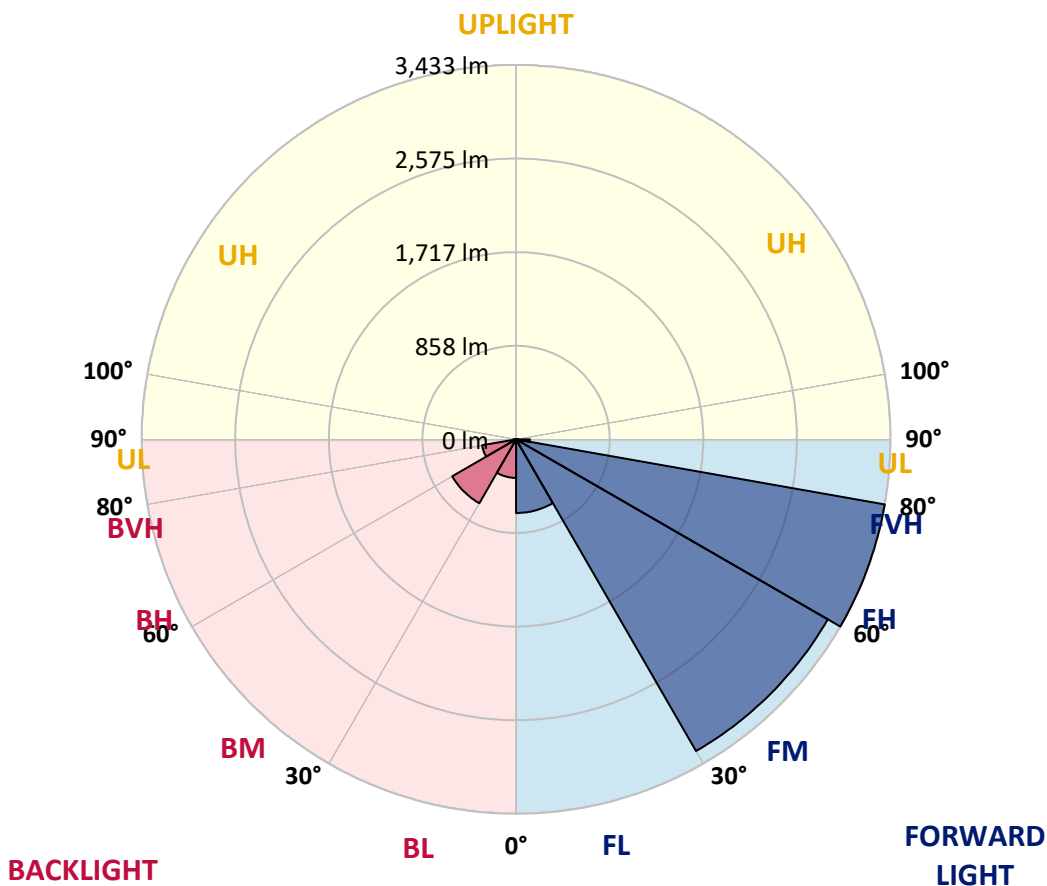
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.3	7.6			
FM (30°-60°)	3300.3	37.0			
FH (60°-80°)	3433.3	38.5			G2/5000
FVH (80°-90°)	127.0	1.4			G2/225
BL (0°-30°)	353.6	4.0	B1/500		
BM (30°-60°)	676.3	7.6	B1/1000		
BH (60°-80°)	316.7	3.6	B1/500		G1/500
BVH (80°-90°)	25.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7
2.5°	1522.0	1524.6	1526.6	1529.3	1528.0	1524.0	1527.3	1527.3	1520.0	1512.0	1504.7
5°	1524.0	1527.3	1526.6	1526.0	1520.7	1514.0	1514.0	1510.0	1497.4	1484.8	1472.8
7.5°	1520.0	1519.3	1518.7	1516.7	1510.7	1503.4	1502.0	1494.1	1477.4	1460.2	1442.9
10°	1502.0	1501.4	1503.4	1508.0	1506.7	1500.0	1500.0	1492.7	1473.5	1452.2	1429.6
12.5°	1487.4	1487.4	1495.4	1508.0	1512.7	1510.0	1510.7	1505.4	1483.4	1458.2	1431.6
15°	1489.4	1490.1	1507.4	1528.0	1536.6	1534.6	1535.3	1529.3	1504.7	1479.4	1443.5
17.5°	1502.7	1506.0	1536.0	1564.5	1575.8	1573.2	1568.5	1558.6	1530.6	1502.0	1458.2
20°	1530.6	1536.0	1574.5	1610.4	1623.7	1617.7	1609.8	1589.8	1559.2	1528.0	1474.1
22.5°	1585.8	1589.1	1631.7	1666.9	1677.6	1670.3	1654.3	1625.7	1590.5	1557.9	1493.4
25°	1663.6	1667.6	1708.2	1740.7	1738.1	1729.4	1707.5	1672.3	1630.4	1595.8	1521.3
27.5°	1756.0	1762.7	1802.6	1828.5	1811.2	1798.6	1774.0	1731.4	1684.2	1653.0	1563.9
30°	1857.1	1859.8	1893.7	1919.6	1893.0	1875.7	1845.8	1799.9	1757.4	1734.1	1627.7
32.5°	1954.8	1957.5	1986.8	2001.4	1973.5	1960.8	1934.9	1886.4	1856.4	1843.8	1722.8
35°	2057.9	2057.2	2081.2	2093.8	2065.2	2059.9	2033.3	1996.1	1990.8	2007.4	1861.8
37.5°	2161.0	2155.0	2167.6	2184.2	2168.3	2173.6	2156.3	2143.7	2164.3	2207.5	2046.6
40°	2243.4	2243.4	2256.7	2277.3	2282.7	2305.9	2295.9	2312.6	2379.1	2482.1	2275.3
42.5°	2316.6	2317.2	2345.2	2377.1	2415.6	2451.5	2459.5	2502.7	2640.4	2801.9	2562.6
45°	2393.0	2393.7	2431.6	2478.1	2559.9	2628.4	2644.4	2741.4	2938.3	3135.1	2874.4
47.5°	2481.5	2474.1	2526.7	2604.5	2720.8	2819.2	2860.5	2998.1	3246.8	3488.8	3168.3
50°	2581.2	2565.9	2624.4	2758.7	2902.4	3037.3	3106.5	3264.1	3577.9	3815.3	3444.9
52.5°	2693.6	2684.9	2746.1	2909.7	3129.1	3284.7	3378.4	3585.2	3899.7	4140.4	3664.3
55°	2833.2	2812.6	2901.0	3109.1	3395.1	3593.2	3704.2	3903.0	4251.5	4435.6	3831.9
57.5°	2986.1	2963.5	3081.9	3358.5	3740.8	3958.2	4097.2	4260.8	4582.6	4661.7	3930.3
60°	3151.0	3143.7	3284.0	3651.0	4153.1	4405.7	4506.1	4654.4	4870.5	4792.7	3905.7
62.5°	3302.0	3299.3	3503.4	3968.2	4589.9	4867.8	4947.6	4986.9	5078.0	4784.1	3710.2
65°	3460.9	3483.5	3759.4	4335.9	5090.6	5363.2	5396.4	5296.7	5147.8	4557.3	3309.9
67.5°	3480.8	3524.7	3920.3	4680.3	5565.3	5822.7	5796.1	5414.4	4941.6	3926.3	2594.5
70°	3113.1	3189.6	3663.7	4732.9	5899.8	6089.3	5897.1	5161.1	4193.6	2844.5	1631.7
72.5°	2601.1	2667.0	3085.9	4036.0	5468.3	5709.6	5449.6	4368.5	2963.5	1631.7	831.1
75°	2024.7	2101.1	2487.4	3208.2	4093.9	4190.3	4060.0	3046.6	1629.0	672.9	377.7
77.5°	1235.4	1290.6	1591.1	2173.6	2864.5	2720.2	2305.3	1708.2	714.8	322.5	233.4
80°	546.6	580.5	783.9	1167.6	1655.0	1564.5	1233.4	729.4	391.0	204.8	162.9
82.5°	293.2	315.2	386.3	462.1	726.8	760.0	616.4	420.2	210.1	117.0	93.1
85°	129.0	141.6	175.5	167.6	238.7	234.7	236.7	288.6	100.4	53.9	60.5
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	7.3	38.6	10.0	16.0	14.0
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°	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7	1512.7
2.5°	1496.7	1484.8	1481.4	1477.4	1470.1	1457.5	1448.2	1437.5	1432.9	1427.6	1428.2
5°	1459.5	1444.9	1430.9	1412.9	1390.3	1365.1	1347.8	1327.8	1317.2	1307.2	1309.9
7.5°	1427.6	1405.0	1376.4	1338.5	1297.9	1252.7	1216.1	1187.5	1168.3	1155.0	1161.6
10°	1407.6	1381.0	1331.2	1269.3	1200.8	1131.7	1079.2	1030.0	999.4	975.4	974.1
12.5°	1403.6	1369.1	1296.6	1206.8	1107.7	1015.3	938.2	871.7	831.1	801.2	812.5
15°	1407.6	1363.7	1266.7	1149.0	1024.0	899.0	803.2	726.8	678.2	651.0	649.0
17.5°	1412.3	1358.4	1232.8	1086.5	936.2	793.2	682.2	601.1	551.2	524.0	524.6
20°	1416.3	1350.4	1192.9	1018.0	847.1	694.8	579.8	502.7	458.1	438.2	441.5
22.5°	1422.9	1342.5	1150.3	944.8	756.0	599.8	498.7	436.2	409.6	396.3	397.0
25°	1435.6	1337.8	1106.4	865.1	666.2	524.0	442.8	400.9	384.3	376.3	375.7
27.5°	1461.5	1341.8	1060.5	787.9	585.1	466.1	406.9	379.7	368.4	363.0	362.4
30°	1504.7	1357.8	1020.6	709.5	515.3	420.9	382.3	365.7	359.1	354.4	353.7
32.5°	1570.5	1387.7	977.4	636.3	458.8	387.6	363.0	354.4	349.7	347.1	347.1
35°	1670.3	1442.2	934.9	572.5	414.9	361.7	347.8	344.4	340.4	339.1	340.4
37.5°	1813.9	1529.3	896.3	516.6	383.7	341.8	331.1	332.5	329.1	331.1	333.1
40°	1996.1	1645.7	863.7	470.8	360.4	327.1	316.5	321.2	319.2	321.2	324.5
42.5°	2226.8	1789.9	839.1	434.9	343.8	315.2	305.2	309.9	308.5	311.2	314.5
45°	2484.1	1980.1	827.8	409.6	331.8	306.5	295.9	299.2	297.9	299.9	303.2
47.5°	2730.8	2153.0	837.8	395.0	321.8	299.2	287.9	289.2	288.6	287.9	289.9
50°	2943.6	2290.6	866.4	390.3	315.2	291.9	281.3	281.9	279.9	275.9	277.3
52.5°	3117.1	2401.0	883.7	390.3	311.8	283.9	273.9	274.6	270.6	265.3	266.0
55°	3231.5	2445.6	869.7	389.6	310.5	277.3	266.6	267.3	263.3	256.7	257.3
57.5°	3264.1	2402.3	811.2	382.3	309.2	272.0	259.3	260.6	258.0	250.7	250.7
60°	3173.0	2244.1	704.1	365.7	305.9	268.6	254.0	256.0	254.7	247.3	247.3
62.5°	2934.3	1962.8	576.5	340.4	296.6	264.6	249.3	253.3	256.7	252.7	252.0
65°	2487.4	1572.5	468.8	312.5	284.6	258.0	242.7	252.7	260.0	265.3	265.3
67.5°	1866.4	1125.7	382.3	283.3	266.6	244.7	234.0	243.4	248.7	252.0	254.0
70°	1137.7	662.3	301.2	249.3	240.7	224.7	216.8	207.5	200.1	198.8	199.5
72.5°	556.5	379.0	244.7	212.1	205.5	190.8	172.9	168.9	165.6	163.6	162.9
75°	306.5	264.0	202.1	176.2	164.2	146.3	142.3	135.6	134.3	131.7	132.3
77.5°	216.8	208.1	166.9	143.0	125.0	115.7	117.7	113.0	113.0	111.0	110.4
80°	162.9	163.6	128.3	104.4	92.4	89.1	91.1	91.1	89.8	89.1	88.4
82.5°	103.1	116.4	86.4	67.2	65.8	66.5	65.8	65.2	66.5	64.5	63.8
85°	71.1	83.8	52.5	39.9	39.9	39.2	40.6	39.9	41.2	39.2	39.2
87.5°	16.0	37.2	19.3	12.0	12.6	12.0	12.6	13.3	14.6	15.3	15.3
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)