

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: P633024

Luminaire Tested: GWS-SA2D-830-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633024
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-830-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5446.4 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

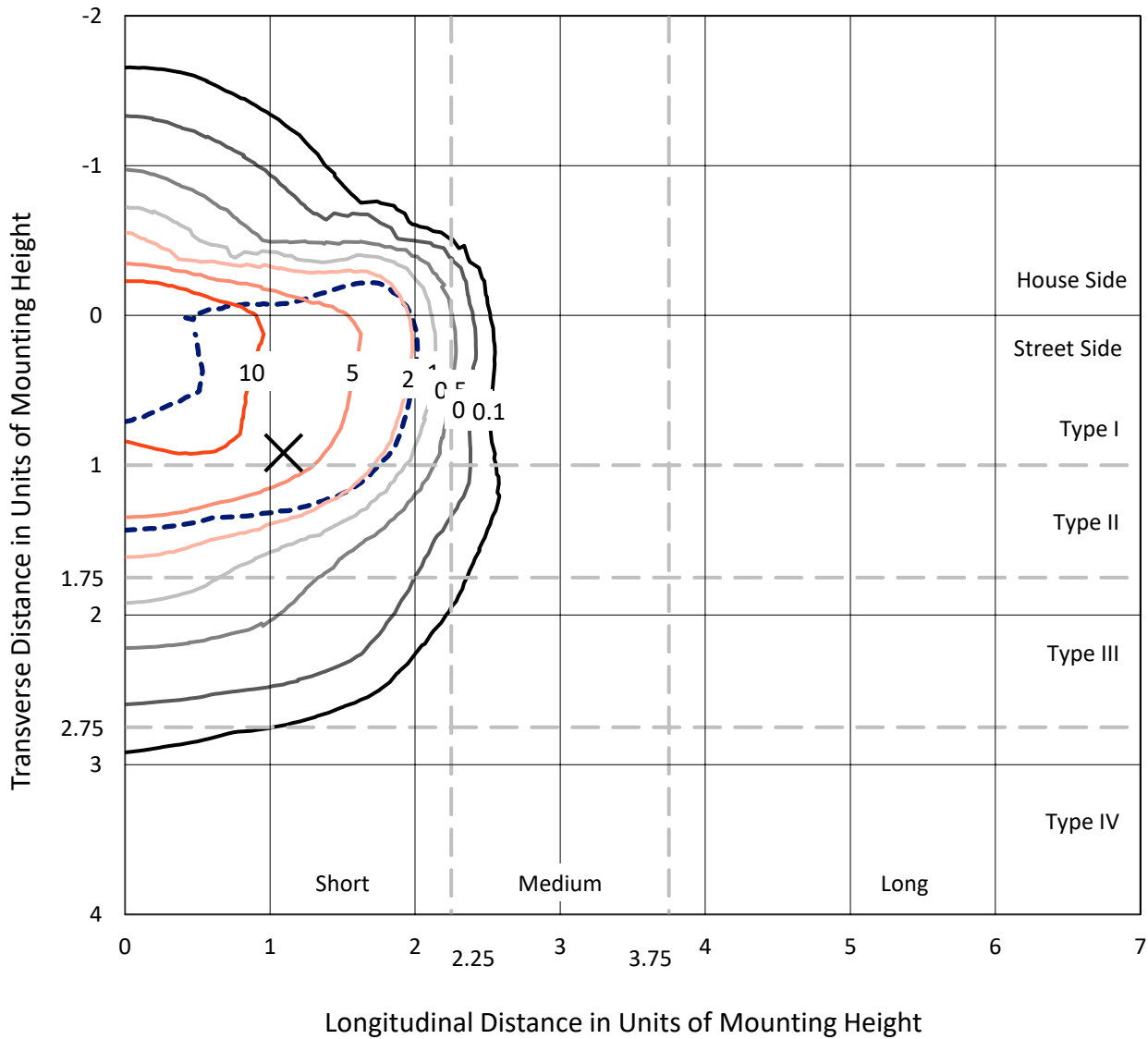
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

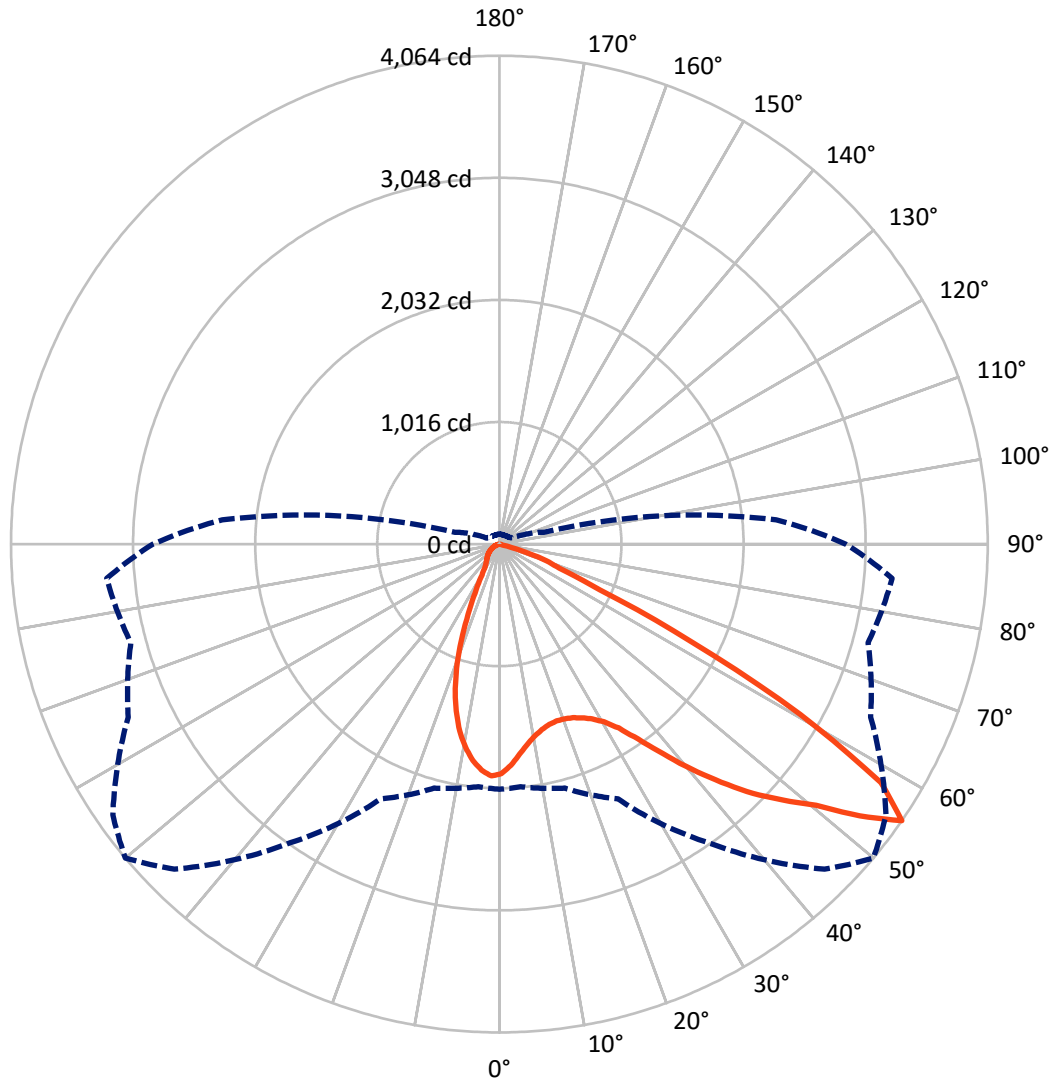
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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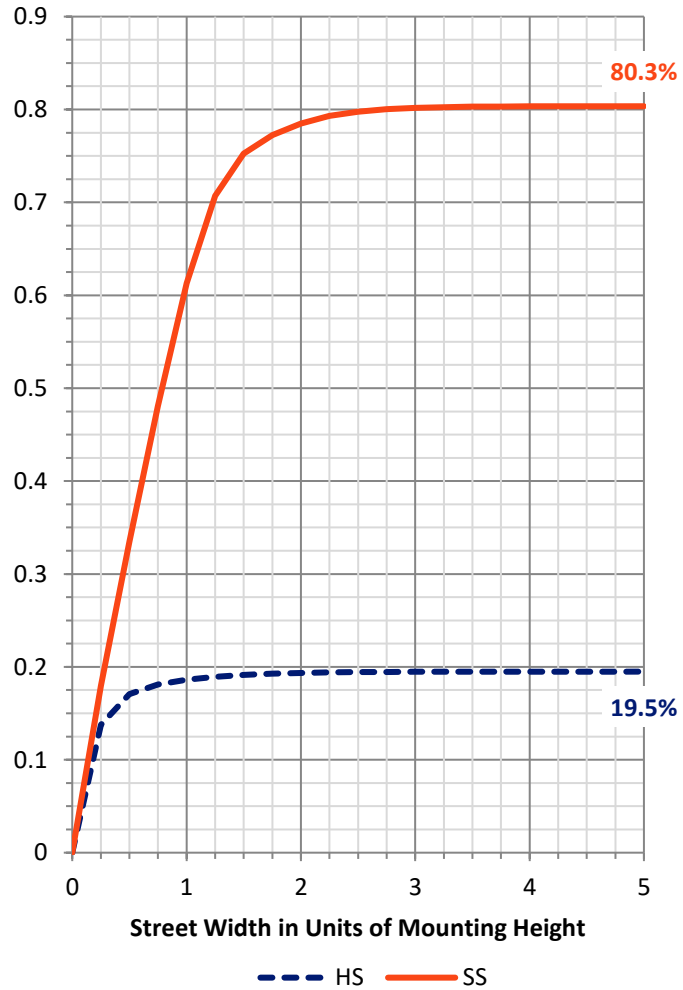
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1073.2	0.0	1073.2
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	4373.2	0.0	4373.2
	% Fixture	80.3	0.0	80.3
Total	Lumens	5446.4	0.0	5446.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.8	3.1
10°-20°	413.0	7.6
20°-30°	582.5	10.7
30°-40°	862.0	15.8
40°-50°	1243.6	22.8
50°-60°	1466.9	26.9
60°-70°	654.4	12.0
70°-80°	56.3	1.0
80°-90°	0.0	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°	5446.4	100.0
0°-180°	5446.4	100.0

Coefficient of Utilization



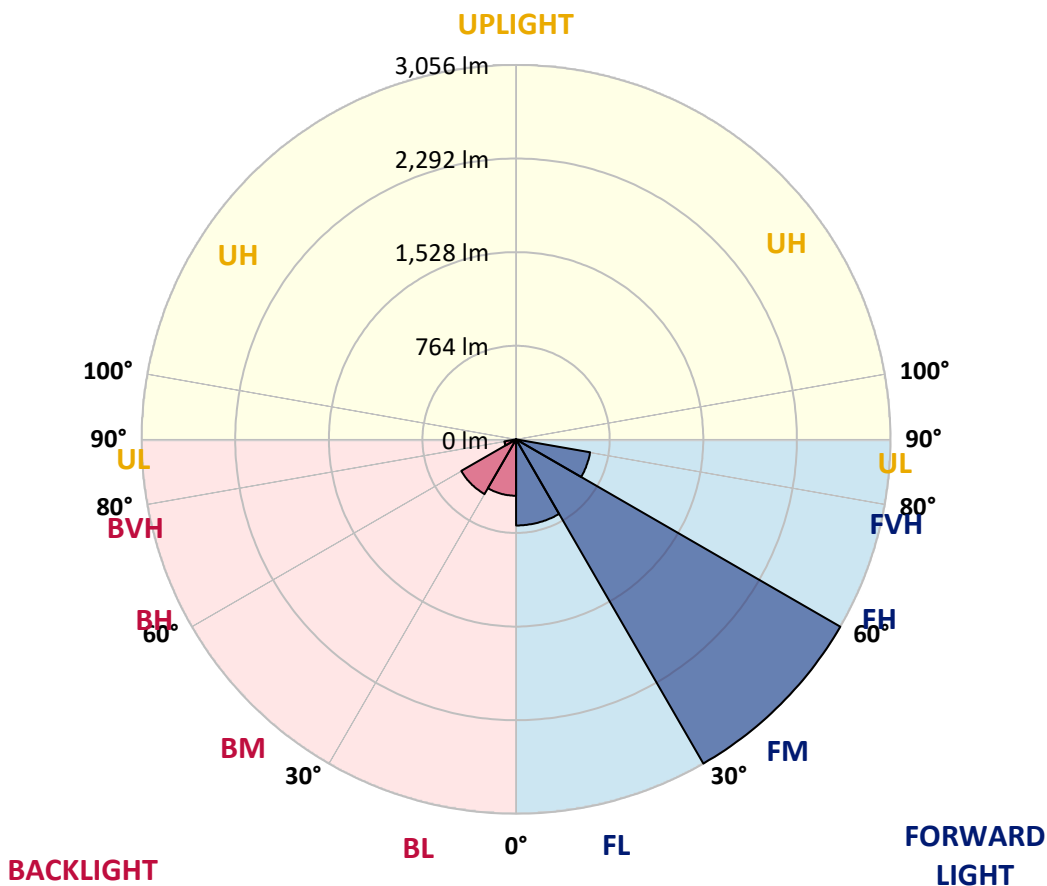
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	703.1	12.9			
FM (30°-60°)	3056.3	56.1			
FH (60°-80°)	613.7	11.3			G0/660
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	460.1	8.4	B1/500		
BM (30°-60°)	516.1	9.5	B1/1000		
BH (60°-80°)	96.9	1.8	B0/110		G0/110
BVH (80°-90°)	0.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9
2.5°	1775.3	1776.6	1777.3	1795.2	1801.9	1828.5	1842.4	1849.7	1869.0	1891.6	1910.2
5°	1656.2	1654.3	1657.6	1680.2	1694.8	1734.0	1755.3	1769.9	1812.5	1865.7	1910.2
7.5°	1552.5	1556.5	1560.5	1585.1	1607.0	1649.6	1680.2	1702.1	1761.3	1840.4	1915.6
10°	1479.4	1479.4	1485.4	1513.3	1539.2	1591.8	1622.3	1650.3	1720.7	1817.8	1921.5
12.5°	1425.5	1426.2	1433.5	1465.4	1495.3	1549.9	1581.8	1609.0	1686.8	1795.2	1922.9
15°	1400.3	1398.3	1404.3	1438.2	1471.4	1522.6	1555.8	1582.4	1662.9	1782.6	1929.5
17.5°	1393.6	1392.3	1396.9	1430.2	1464.1	1514.0	1546.5	1573.1	1659.6	1786.6	1949.5
20°	1412.9	1410.2	1408.2	1436.8	1468.7	1517.9	1551.9	1581.8	1675.5	1808.5	1980.0
22.5°	1458.8	1458.8	1454.1	1468.1	1489.4	1533.9	1569.1	1608.4	1717.4	1852.4	2025.3
25°	1543.2	1536.6	1527.9	1533.9	1531.2	1559.2	1601.1	1655.6	1796.5	1924.9	2080.4
27.5°	1639.6	1645.6	1631.0	1631.6	1608.4	1598.4	1646.9	1729.4	1914.2	2027.3	2162.2
30°	1770.6	1766.0	1766.6	1764.6	1710.8	1663.6	1716.1	1825.8	2062.5	2183.5	2268.6
32.5°	1873.0	1879.7	1901.6	1914.2	1843.7	1767.9	1823.8	1956.8	2231.4	2361.7	2398.9
35°	1981.4	1993.3	2037.9	2079.1	2019.9	1932.8	1992.7	2130.3	2390.3	2537.9	2548.5
37.5°	2095.7	2119.7	2172.9	2245.3	2236.0	2158.9	2213.4	2334.4	2515.3	2644.3	2672.2
40°	2226.7	2250.0	2337.1	2441.5	2463.4	2446.1	2464.1	2534.6	2597.7	2648.9	2725.4
42.5°	2370.3	2402.3	2512.6	2652.3	2734.7	2750.0	2708.1	2700.8	2633.6	2595.7	2714.1
45°	2539.9	2577.1	2702.1	2883.0	3014.0	3034.6	2962.1	2868.3	2656.2	2556.5	2680.2
47.5°	2730.0	2765.3	2889.6	3107.0	3301.9	3309.8	3183.5	3032.6	2723.4	2601.7	2706.1
50°	2793.9	2815.8	2923.5	3178.8	3537.9	3599.1	3416.2	3217.4	2858.4	2734.7	2832.4
52.5°	2574.5	2583.1	2676.9	2934.8	3490.0	3883.0	3756.0	3493.3	3098.4	2937.5	3027.3
55°	2039.9	2025.9	2101.7	2338.4	3033.2	3825.1	4063.8	3926.9	3407.6	3175.5	3280.6
57.5°	1426.9	1410.2	1392.9	1553.2	2263.3	3242.7	3744.7	3987.4	3702.1	3411.6	3553.8
60°	1172.9	1156.9	1073.1	999.3	1368.3	2328.5	2876.3	3333.1	3678.2	3399.6	3545.2
62.5°	1013.3	1004.0	970.1	869.7	805.2	1329.1	1801.2	2238.7	2822.5	2669.5	2677.5
65°	795.9	793.2	816.5	827.1	712.1	735.4	918.9	1163.6	1525.9	1438.8	1364.4
67.5°	543.9	537.9	581.8	715.4	684.8	580.5	537.9	542.6	660.2	403.6	320.5
70°	345.7	331.8	332.4	443.5	557.2	458.1	414.9	365.0	328.5	59.8	67.8
72.5°	221.4	212.8	182.8	200.1	258.0	223.4	225.4	194.1	129.7	31.9	37.2
75°	93.1	85.8	65.8	52.5	51.9	32.6	28.6	26.6	18.0	18.0	19.3
77.5°	0.7	0.0	0.0	0.7	1.3	0.7	0.7	1.3	2.7	4.0	4.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9	1910.9
2.5°	1921.5	1905.6	1923.5	1930.2	1929.5	1930.2	1910.9	1897.6	1896.9	1880.3	1872.3
5°	1928.9	1916.2	1929.5	1920.9	1900.3	1874.3	1839.8	1809.8	1796.5	1777.3	1767.9
7.5°	1942.8	1929.5	1927.5	1892.9	1841.8	1787.2	1726.1	1671.5	1642.3	1607.0	1609.0
10°	1952.8	1937.5	1911.6	1841.1	1756.0	1668.9	1577.8	1496.7	1445.5	1398.3	1390.3
12.5°	1956.8	1934.2	1873.7	1767.3	1647.6	1533.9	1400.3	1284.6	1204.8	1142.9	1134.3
15°	1964.1	1927.5	1825.1	1678.2	1514.0	1353.1	1182.8	1024.6	918.9	847.7	853.7
17.5°	1975.4	1920.2	1770.6	1578.5	1370.3	1142.9	912.9	731.4	634.3	593.1	593.7
20°	1991.4	1911.6	1710.8	1468.7	1198.1	905.6	638.3	501.3	474.1	472.7	470.7
22.5°	2012.6	1902.9	1646.9	1348.4	994.0	634.3	424.9	382.3	393.6	415.6	419.5
25°	2037.9	1892.3	1575.8	1212.8	771.3	416.2	318.5	311.8	339.1	368.4	375.0
27.5°	2077.1	1887.0	1494.7	1058.5	541.2	298.5	260.6	264.6	289.2	313.8	319.8
30°	2143.6	1896.9	1406.2	885.6	347.7	238.0	226.1	232.0	245.3	258.0	263.3
32.5°	2234.0	1926.2	1320.5	696.8	248.0	206.8	204.1	207.4	212.8	220.1	222.1
35°	2339.8	1976.7	1232.0	498.7	204.8	188.8	186.2	186.2	188.8	190.2	190.8
37.5°	2426.9	2029.9	1148.9	331.8	183.5	174.9	170.9	168.9	168.2	169.5	170.2
40°	2464.8	2051.9	1058.5	241.4	168.2	162.2	156.2	150.3	150.3	154.9	155.6
42.5°	2438.2	2027.3	954.1	199.5	157.6	148.9	139.6	134.3	137.0	141.6	143.0
45°	2381.6	1966.8	839.1	176.2	146.9	135.6	125.0	121.7	124.3	130.3	131.6
47.5°	2372.3	1926.9	701.5	160.9	135.6	124.3	113.0	109.7	113.0	117.7	119.0
50°	2464.8	1961.4	548.5	147.6	125.0	112.4	103.1	99.7	101.7	104.4	105.7
52.5°	2633.6	2089.8	442.8	135.0	112.4	100.4	94.4	90.4	90.4	93.1	93.7
55°	2883.0	2313.8	382.3	120.3	97.7	91.1	85.8	81.8	81.8	83.1	83.8
57.5°	3170.2	2585.1	396.3	101.1	85.8	82.4	77.8	74.5	75.8	75.8	75.8
60°	3130.3	2565.2	424.2	85.1	75.8	74.5	70.5	69.1	72.5	69.8	68.5
62.5°	2305.8	1771.9	222.1	69.8	65.2	63.8	61.2	63.8	68.5	61.2	58.5
65°	1119.7	857.7	89.1	57.2	55.2	53.9	52.5	56.5	59.2	47.9	45.2
67.5°	263.3	214.1	57.8	48.5	45.9	43.2	44.5	45.2	43.2	32.6	31.2
70°	68.5	67.2	45.2	40.6	36.6	33.9	33.9	33.2	28.6	20.6	19.3
72.5°	37.2	36.6	32.6	30.6	25.3	22.6	23.3	20.6	16.0	12.0	11.3
75°	18.6	19.9	18.6	17.3	14.0	12.6	12.6	11.3	8.0	4.7	4.7
77.5°	4.0	4.7	4.7	4.0	3.3	2.7	2.7	3.3	1.3	0.0	0.0
80°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)