

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480648

Luminaire Tested: **IFLD-S-SA2B-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480648
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

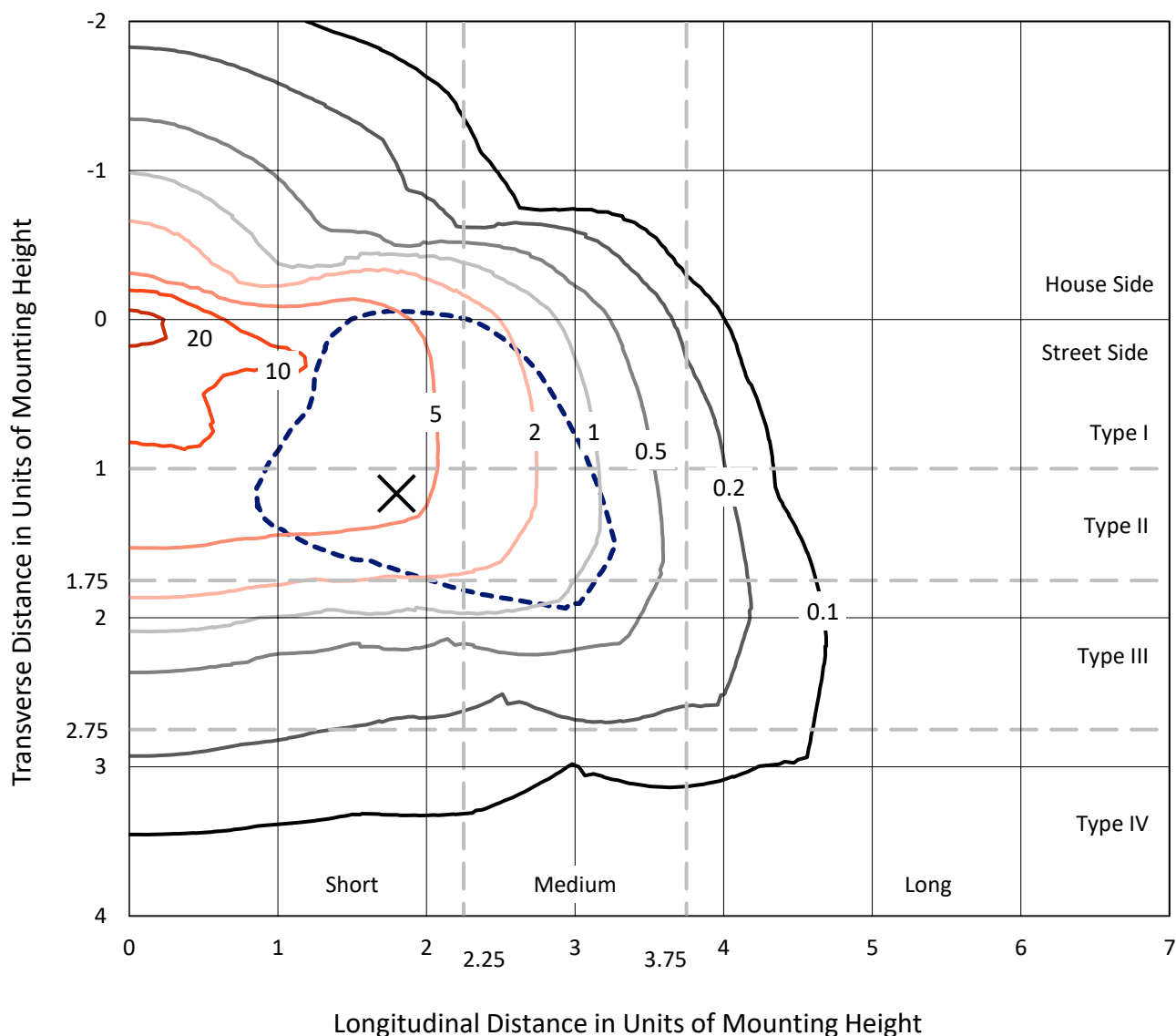
Lumens per Lamp: N/A
Luminaire Lumens: 8952.1 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

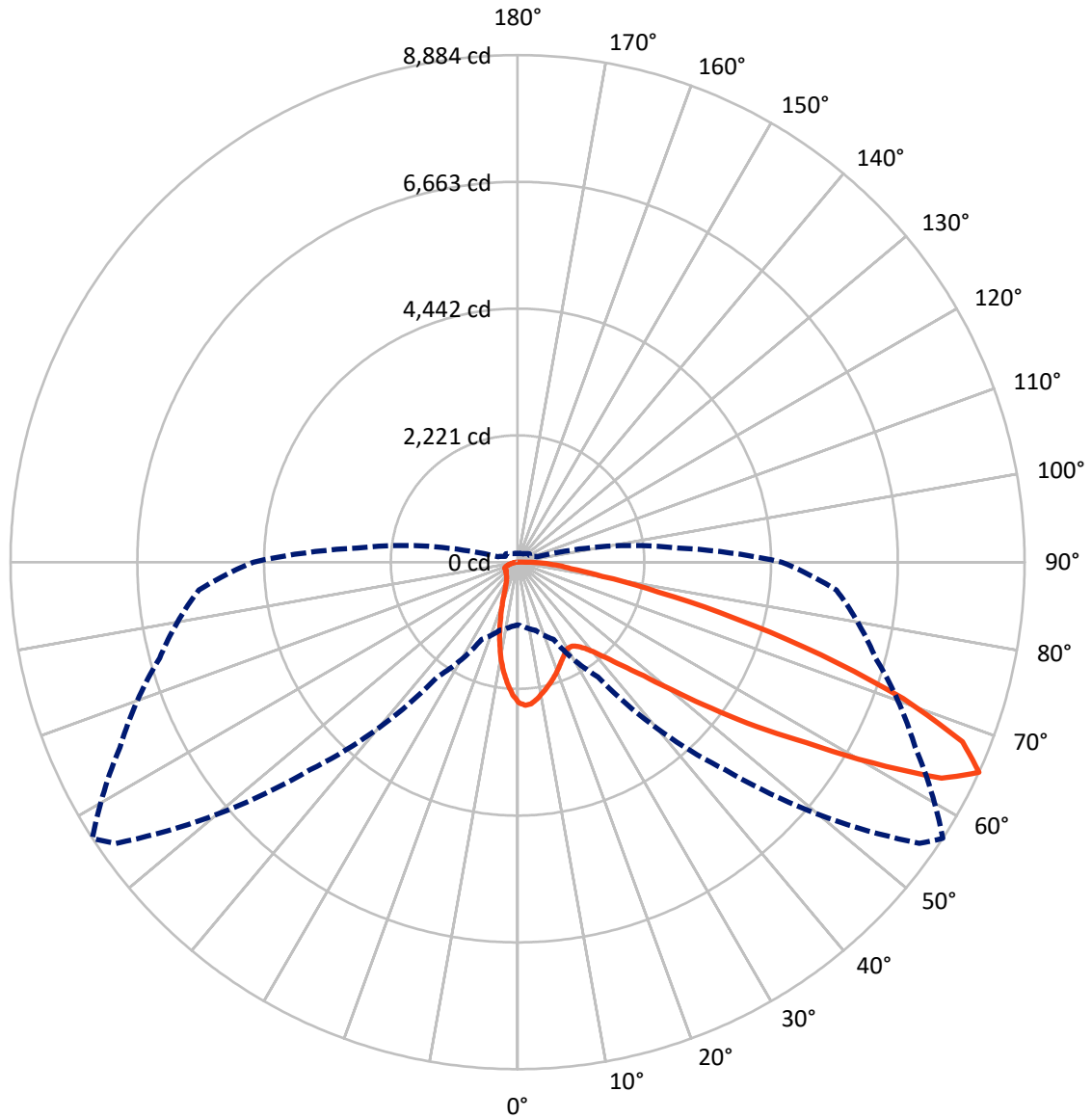
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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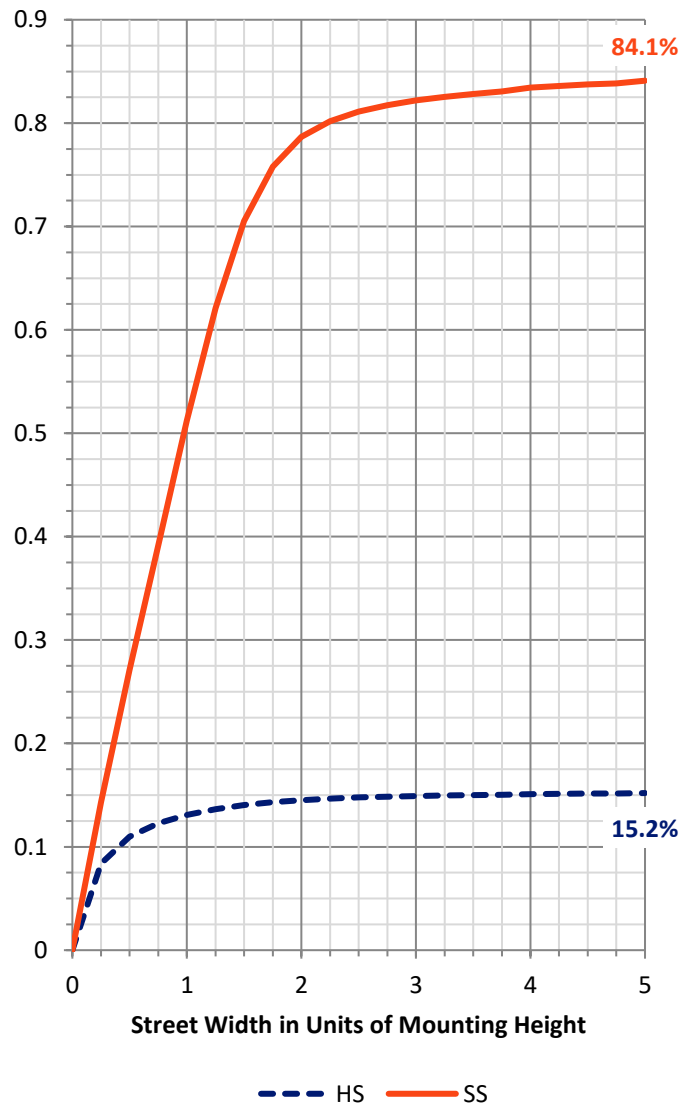
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1372.9	0.0	1372.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	7579.2	0.0	7579.2
	% Fixture	84.7	0.0	84.7
Total	Lumens	8952.1	0.0	8952.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.1	2.3
10°-20°	443.7	5.0
20°-30°	573.6	6.4
30°-40°	771.9	8.6
40°-50°	1230.8	13.7
50°-60°	2174.0	24.3
60°-70°	2391.6	26.7
70°-80°	1000.5	11.2
80°-90°	159.9	1.8
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°	8952.1	100.0
0°-180°	8952.1	100.0

Coefficient of Utilization

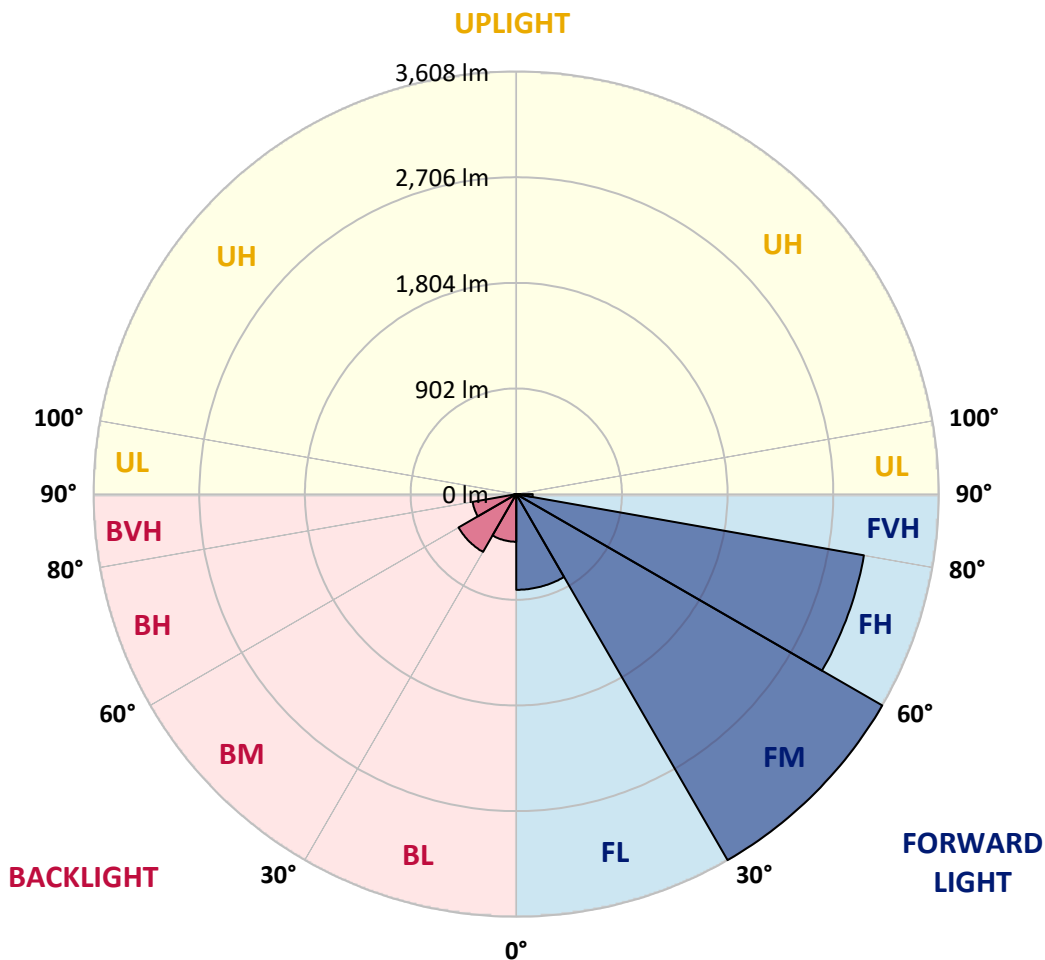


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	816.9	9.1			
FM (30°-60°)	3607.7	40.3			
FH (60°-80°)	3013.6	33.7			G2/5000
FVH (80°-90°)	141.1	1.6			G2/225
BL (0°-30°)	406.6	4.5	B1/500		
BM (30°-60°)	569.0	6.4	B1/1000		
BH (60°-80°)	378.6	4.2	B1/500		G1/500
BVH (80°-90°)	18.8	0.2			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7
2.5°	2528.2	2532.2	2532.2	2540.3	2513.1	2526.2	2524.2	2512.1	2516.1	2494.9	2473.8
5°	2456.7	2453.7	2469.8	2471.8	2492.9	2499.0	2504.0	2496.0	2498.0	2451.6	2431.5
7.5°	2273.4	2272.3	2299.5	2322.7	2367.0	2408.3	2435.5	2427.5	2438.5	2409.3	2362.0
10°	2055.8	2079.0	2107.2	2130.3	2211.9	2264.3	2334.8	2341.8	2384.2	2377.1	2291.5
12.5°	1892.6	1902.7	1923.8	1990.3	2064.9	2151.5	2252.2	2261.3	2302.6	2322.7	2248.2
15°	1758.7	1767.7	1794.9	1844.3	1927.9	2030.6	2158.5	2181.7	2264.3	2271.3	2191.8
17.5°	1660.9	1668.0	1686.1	1735.5	1804.0	1935.9	2056.8	2098.1	2206.9	2241.1	2133.3
20°	1622.7	1607.6	1617.6	1648.9	1717.4	1819.1	1975.2	2011.5	2150.5	2218.0	2077.9
22.5°	1605.5	1592.5	1598.5	1596.5	1650.9	1723.4	1887.6	1925.9	2097.1	2190.8	2028.6
25°	1618.6	1618.6	1612.6	1607.6	1613.6	1660.9	1792.9	1852.3	2025.6	2167.6	1978.2
27.5°	1689.2	1662.0	1665.0	1643.8	1637.8	1637.8	1750.6	1785.8	2002.4	2154.5	1936.9
30°	1734.5	1747.6	1748.6	1717.4	1686.1	1629.7	1711.3	1745.6	1983.3	2170.6	1912.8
32.5°	1850.3	1844.3	1827.1	1821.1	1774.8	1711.3	1730.4	1753.6	1972.2	2206.9	1919.8
35°	1966.1	1963.1	1964.1	1961.1	1912.8	1819.1	1781.8	1813.0	1992.3	2270.3	1944.0
37.5°	2086.0	2094.1	2128.3	2128.3	2076.9	1975.2	1925.9	1916.8	2065.9	2374.1	2001.4
40°	2205.9	2226.0	2269.3	2337.8	2265.3	2170.6	2091.0	2076.9	2154.5	2513.1	2139.4
42.5°	2320.7	2353.9	2439.5	2541.3	2517.1	2422.4	2316.7	2300.5	2336.8	2719.6	2331.8
45°	2467.8	2496.0	2630.9	2787.0	2820.3	2736.7	2612.8	2599.7	2597.7	3021.7	2596.7
47.5°	2691.4	2721.6	2856.5	3013.7	3116.4	3129.5	2990.5	2976.4	2928.1	3429.7	2984.5
50°	2971.4	3020.7	3134.5	3317.9	3466.9	3606.9	3567.7	3526.4	3431.7	3904.1	3476.0
52.5°	3175.8	3236.3	3390.4	3625.1	3888.0	4110.6	4251.6	4251.6	4034.0	4424.8	4067.3
55°	3230.2	3266.5	3460.9	3800.3	4250.6	4813.6	5108.8	5086.6	4751.2	4972.8	4755.2
57.5°	3013.7	3061.0	3296.7	3652.3	4440.9	5471.4	5959.9	5964.9	5534.8	5609.4	5434.1
60°	2417.4	2432.5	2710.5	3185.9	4257.6	6001.2	7122.2	7141.4	6426.2	6176.4	5779.6
62.5°	1671.0	1719.4	1928.9	2345.9	3527.4	5941.7	8243.3	8338.0	7140.4	6475.6	5834.0
65°	1099.9	1129.1	1240.9	1494.8	2455.7	5150.0	8591.8	8883.9	7686.3	6492.7	5606.3
67.5°	797.7	802.8	836.0	967.0	1475.6	3703.6	7996.5	8408.5	7890.8	6349.7	5072.5
70°	644.6	648.7	660.8	744.4	952.9	2317.7	6521.9	7167.6	7277.4	5671.8	4085.4
72.5°	523.8	528.8	543.9	622.5	785.7	1289.3	4769.3	5556.0	5919.6	4196.2	2715.5
75°	412.0	416.0	452.3	529.8	738.3	885.4	3163.8	3934.3	3983.7	2452.6	1271.1
77.5°	282.0	289.1	333.4	449.2	695.0	774.6	1972.2	2520.1	2261.3	959.9	437.1
80°	179.3	189.4	215.6	340.4	614.4	739.3	1226.8	1504.8	990.1	328.4	210.5
82.5°	105.8	115.8	142.0	220.6	482.5	685.9	864.2	941.8	464.3	168.2	126.9
85°	58.4	65.5	85.6	133.0	283.0	609.4	692.0	675.9	265.9	89.6	79.6
87.5°	19.1	22.2	31.2	53.4	116.8	287.1	415.0	389.8	138.0	41.3	31.2
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°	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7
2.5°	2459.7	2456.7	2411.3	2377.1	2318.7	2270.3	2251.2	2225.0	2224.0	2204.9	2199.8
5°	2400.3	2369.0	2299.5	2233.1	2129.3	2059.8	1996.4	1952.0	1933.9	1894.6	1885.6
7.5°	2323.7	2282.4	2175.7	2050.8	1928.9	1820.1	1721.4	1622.7	1567.3	1548.1	1527.0
10°	2244.1	2171.6	2013.5	1873.5	1703.3	1536.0	1380.9	1241.9	1166.4	1113.0	1089.8
12.5°	2180.7	2084.0	1882.5	1673.0	1448.4	1224.8	1044.5	898.5	812.8	772.6	754.4
15°	2109.2	1981.3	1739.5	1474.6	1194.6	940.8	764.5	649.7	615.4	596.3	593.3
17.5°	2033.6	1885.6	1584.4	1279.2	946.8	708.1	594.3	547.9	532.8	524.8	520.7
20°	1963.1	1799.9	1425.3	1061.6	741.3	568.1	514.7	490.5	489.5	493.6	492.5
22.5°	1863.4	1688.1	1268.1	860.2	592.3	494.6	460.3	454.3	460.3	465.3	467.4
25°	1807.0	1596.5	1092.9	682.9	489.5	439.2	428.1	426.1	435.1	441.2	440.2
27.5°	1748.6	1501.8	929.7	546.9	429.1	399.9	397.9	399.9	408.9	418.0	417.0
30°	1703.3	1426.3	776.6	457.3	382.8	371.7	369.7	371.7	376.7	377.7	377.7
32.5°	1666.0	1336.6	646.7	396.9	354.6	345.5	347.5	346.5	347.5	348.5	349.5
35°	1643.8	1283.2	539.9	359.6	331.4	324.3	323.3	320.3	321.3	322.3	321.3
37.5°	1691.2	1257.0	455.3	333.4	315.3	309.2	307.2	305.2	302.2	302.2	302.2
40°	1762.7	1242.9	403.9	316.3	303.2	296.1	290.1	288.1	288.1	289.1	290.1
42.5°	1904.7	1266.1	368.7	303.2	288.1	280.0	274.0	275.0	278.0	281.0	279.0
45°	2110.2	1336.6	352.5	293.1	279.0	267.9	263.9	262.9	265.9	270.9	275.0
47.5°	2379.1	1446.4	346.5	284.0	273.0	257.9	252.8	255.8	259.9	266.9	263.9
50°	2819.3	1693.2	351.5	276.0	263.9	252.8	246.8	243.8	246.8	251.8	253.8
52.5°	3394.4	2141.4	370.7	272.0	257.9	248.8	238.7	233.7	236.7	240.7	240.7
55°	4082.4	2753.8	424.1	266.9	247.8	242.7	231.7	221.6	223.6	223.6	222.6
57.5°	4688.7	3216.1	487.5	259.9	241.7	234.7	220.6	208.5	206.5	207.5	208.5
60°	4960.7	3339.0	517.7	257.9	241.7	224.6	205.5	193.4	190.4	188.4	188.4
62.5°	4913.3	3126.5	456.3	248.8	247.8	216.6	191.4	178.3	174.3	170.2	171.2
65°	4627.3	2823.3	359.6	236.7	248.8	211.5	177.3	164.2	157.1	152.1	151.1
67.5°	4104.5	2410.3	285.1	227.6	238.7	202.5	165.2	150.1	144.0	139.0	137.0
70°	3211.1	1889.6	247.8	215.6	214.5	180.3	151.1	138.0	128.9	122.9	122.9
72.5°	2082.0	1194.6	212.5	191.4	185.3	151.1	130.9	122.9	115.8	110.8	110.8
75°	942.8	555.0	171.2	160.2	151.1	120.9	110.8	106.8	100.7	95.7	95.7
77.5°	338.4	236.7	127.9	125.9	112.8	93.7	89.6	86.6	82.6	77.6	77.6
80°	189.4	150.1	95.7	91.7	78.6	69.5	64.5	64.5	62.4	59.4	58.4
82.5°	119.9	97.7	70.5	61.4	51.4	46.3	44.3	43.3	42.3	38.3	37.3
85°	75.5	66.5	46.3	36.3	30.2	23.2	22.2	21.2	19.1	17.1	17.1
87.5°	34.2	38.3	18.1	11.1	8.1	5.0	3.0	1.0	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)