

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: P480843

Luminaire Tested: **IFLD-S-SA2B-735-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480843
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-735-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

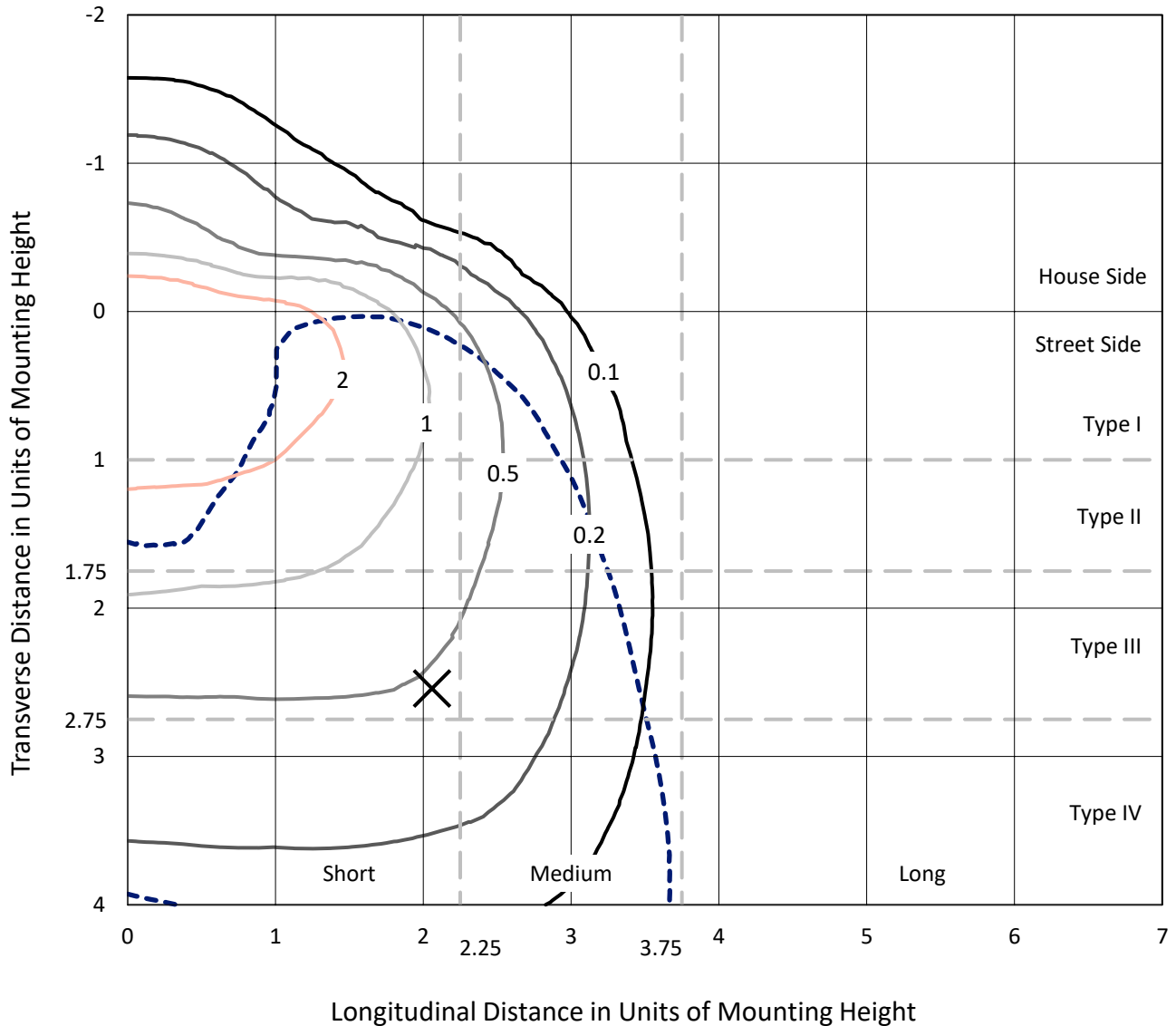
Lumens per Lamp: N/A
Luminaire Lumens: 10892.9 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

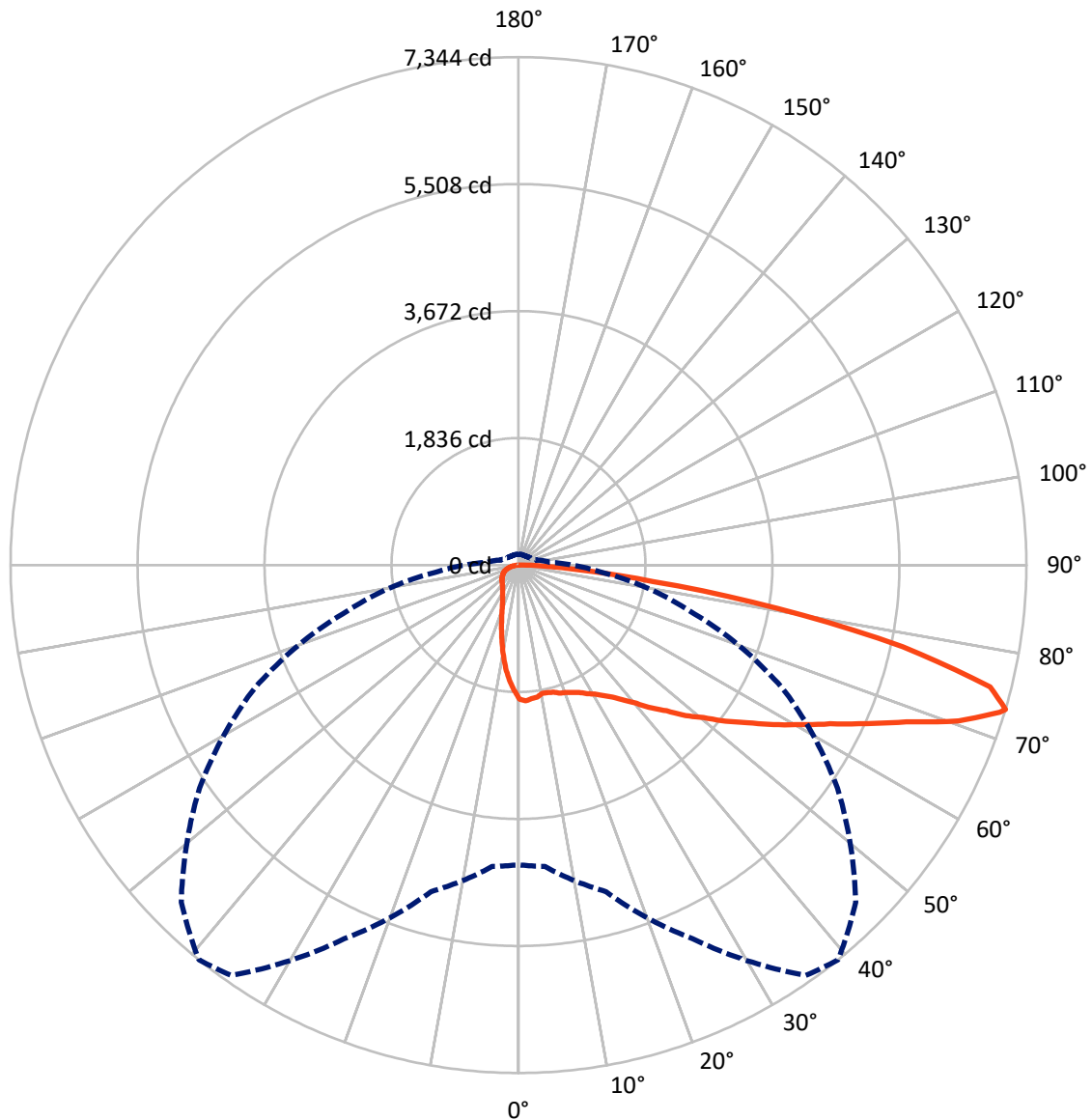
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1531.2	0.0	1531.2
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9361.6	0.0	9361.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	10892.9	0.0	10892.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	1.5
10°-20°	427.9	3.9
20°-30°	653.9	6.0
30°-40°	953.4	8.8
40°-50°	1440.6	13.2
50°-60°	2086.1	19.2
60°-70°	2650.5	24.3
70°-80°	2148.6	19.7
80°-90°	363.5	3.3
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°	10892.9	100.0
0°-180°	10892.9	100.0

Coefficient of Utilization



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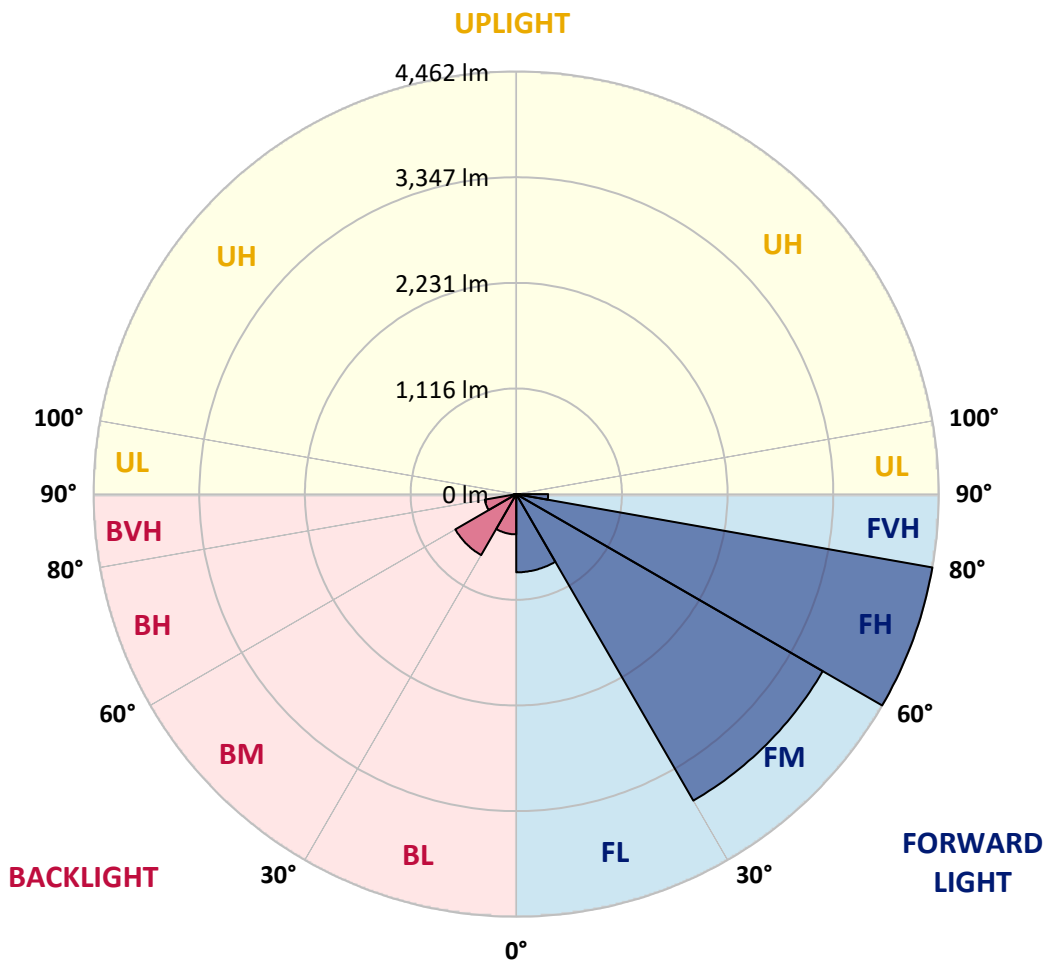
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	825.4	7.6			
FM	(30°-60°)	3737.0	34.3			
FH	(60°-80°)	4462.4	41.0			G2/5000
FVH	(80°-90°)	336.9	3.1			G3/500
BL	(0°-30°)	424.6	3.9	B1/500		
BM	(30°-60°)	743.1	6.8	B1/1000		
BH	(60°-80°)	336.8	3.1	B1/500		G1/500
BVH	(80°-90°)	26.7	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0
2.5°	1985.3	1964.6	1968.2	1960.9	1968.2	1965.8	1962.2	1943.9	1962.2	1943.9	1939.0
5°	1958.5	1958.5	1970.7	1952.4	1954.8	1942.7	1954.8	1941.4	1929.2	1898.8	1890.2
7.5°	1950.0	1948.7	1950.0	1924.4	1936.6	1929.2	1917.1	1902.4	1878.1	1858.6	1830.5
10°	1891.5	1903.7	1890.2	1897.6	1907.3	1885.4	1884.2	1880.5	1869.5	1843.9	1826.9
12.5°	1859.8	1880.5	1887.8	1881.7	1890.2	1892.7	1885.4	1880.5	1867.1	1850.0	1801.3
15°	1873.2	1848.8	1869.5	1909.7	1901.2	1907.3	1908.5	1903.7	1897.6	1865.9	1834.2
17.5°	1876.8	1862.2	1906.1	1914.6	1925.6	1947.5	1932.9	1931.7	1908.5	1886.6	1840.3
20°	1885.4	1879.3	1914.6	1959.7	1960.9	1964.6	1971.9	1953.6	1941.4	1903.7	1833.0
22.5°	1917.1	1937.8	1970.7	1990.2	2001.2	2003.6	2003.6	1967.0	1953.6	1923.2	1867.1
25°	2012.1	1990.2	2036.5	2059.7	2043.8	2040.2	2031.6	1998.7	1984.1	1957.3	1882.9
27.5°	2081.6	2080.4	2107.2	2138.9	2096.2	2104.7	2074.3	2064.5	2031.6	2017.0	1911.0
30°	2176.7	2203.5	2202.2	2212.0	2155.9	2165.7	2126.7	2108.4	2090.1	2098.7	1993.8
32.5°	2298.5	2288.8	2304.6	2297.3	2241.2	2249.8	2203.5	2175.4	2181.5	2207.1	2107.2
35°	2376.5	2366.8	2372.9	2372.9	2355.8	2346.1	2326.6	2290.0	2319.2	2366.8	2233.9
37.5°	2460.6	2472.8	2508.1	2500.8	2478.9	2478.9	2476.5	2450.9	2488.6	2605.6	2436.2
40°	2535.0	2567.9	2589.8	2604.4	2630.0	2630.0	2650.7	2636.1	2704.4	2892.0	2683.6
42.5°	2613.0	2614.2	2733.6	2744.6	2801.9	2826.2	2842.1	2854.3	2982.2	3191.9	2948.1
45°	2712.9	2719.0	2823.8	2907.9	2996.9	3005.4	3065.1	3105.3	3262.5	3519.7	3235.7
47.5°	2844.5	2837.2	2949.3	3083.4	3194.3	3252.8	3324.7	3368.6	3562.3	3875.6	3550.2
50°	3017.6	2995.6	3060.2	3271.1	3401.5	3466.1	3594.0	3667.2	3893.8	4215.6	3765.9
52.5°	3228.4	3191.9	3243.0	3473.4	3619.6	3750.0	3871.9	3953.6	4190.0	4478.8	3925.5
55°	3451.4	3375.9	3390.5	3687.9	3898.7	4021.8	4188.8	4274.1	4515.4	4715.3	4085.2
57.5°	3672.0	3624.5	3595.3	3893.8	4231.4	4349.6	4503.2	4614.1	4818.9	4924.9	4220.5
60°	3857.3	3845.1	3797.6	4213.1	4583.6	4684.8	4845.7	4913.9	5068.7	5118.7	4222.9
62.5°	4009.6	3968.2	4043.7	4470.3	4941.9	5056.5	5233.2	5239.3	5349.0	5239.3	4098.6
65°	4129.1	4131.5	4252.1	4781.1	5356.3	5525.7	5668.3	5652.5	5581.8	5167.4	3804.9
67.5°	4237.5	4283.8	4460.5	5122.3	5888.9	6048.6	6207.0	5997.4	5645.2	4831.0	3230.9
70°	4322.8	4369.1	4742.1	5537.9	6516.5	6750.5	6785.9	6133.9	5353.9	4092.5	2437.5
72.5°	4313.1	4397.2	4901.7	5869.4	7073.5	7275.8	6990.6	5750.0	4460.5	2853.0	1422.3
73°	4333.8	4375.2	4888.3	5962.0	7242.9	7344.1	6895.6	5629.3	4207.1	2559.3	1202.9
75°	3934.1	4074.2	4645.8	5810.9	7061.3	7043.0	6349.6	4690.9	2990.8	1344.3	582.6
77.5°	2910.3	2999.3	3661.1	4778.6	5796.3	5679.3	4789.6	2998.1	1419.8	498.5	314.4
80°	1422.3	1491.7	1940.2	2759.2	3790.2	3800.0	2972.5	1560.0	608.1	281.5	214.5
82.5°	710.5	752.0	932.3	1212.6	1864.7	1953.6	1507.6	887.2	376.6	159.7	121.9
85°	464.3	493.6	574.0	593.5	791.0	834.8	702.0	692.2	245.0	86.5	98.7
87.5°	308.3	313.2	352.2	299.8	316.9	304.7	338.8	436.3	71.9	36.6	26.8
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°	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0	1939.0
2.5°	1932.9	1915.8	1897.6	1872.0	1853.7	1825.7	1800.1	1789.1	1786.7	1787.9	1775.7
5°	1882.9	1858.6	1822.0	1769.6	1739.1	1692.8	1653.8	1633.1	1611.2	1614.8	1605.1
7.5°	1813.5	1786.7	1730.6	1669.7	1594.1	1528.3	1491.7	1440.5	1411.3	1389.4	1401.5
10°	1791.5	1745.2	1661.1	1577.0	1460.0	1373.5	1289.4	1230.9	1190.7	1151.7	1168.8
12.5°	1780.6	1734.3	1617.3	1492.9	1341.8	1210.2	1092.0	1020.1	962.8	928.7	942.1
15°	1770.8	1713.5	1575.8	1400.3	1230.9	1057.9	925.0	830.0	775.1	742.2	745.9
17.5°	1784.2	1702.6	1514.9	1310.1	1109.0	923.8	776.3	677.6	621.6	600.8	596.0
20°	1770.8	1690.4	1455.2	1219.9	987.2	795.8	654.5	572.8	533.8	516.7	513.1
22.5°	1775.7	1661.1	1393.0	1120.0	873.8	688.6	572.8	510.6	480.2	471.6	474.1
25°	1798.8	1644.1	1330.9	1010.3	761.7	609.4	520.4	472.9	450.9	442.4	444.8
27.5°	1815.9	1658.7	1274.8	906.7	666.6	538.7	476.5	444.8	430.2	424.1	422.9
30°	1858.6	1667.2	1219.9	814.1	588.6	492.4	446.1	420.5	410.7	407.1	405.8
32.5°	1921.9	1683.1	1156.6	728.8	531.4	448.5	421.7	399.7	397.3	393.6	394.9
35°	2025.5	1737.9	1085.9	655.7	476.5	419.2	396.1	381.5	381.5	381.5	385.1
37.5°	2174.2	1814.7	1022.5	586.2	441.2	393.6	374.1	369.3	366.8	370.5	372.9
40°	2365.6	1907.3	971.3	531.4	410.7	376.6	359.5	357.1	355.9	354.7	357.1
42.5°	2575.2	2025.5	927.5	488.7	388.8	358.3	346.1	343.7	338.8	341.2	344.9
45°	2783.6	2171.8	888.5	454.6	374.1	348.6	331.5	330.3	327.8	326.6	332.7
47.5°	3015.1	2315.6	876.3	433.9	363.2	333.9	321.7	320.5	313.2	312.0	316.9
50°	3195.5	2421.6	889.7	424.1	347.3	323.0	314.4	308.3	302.2	296.2	296.2
52.5°	3319.8	2494.7	899.4	416.8	338.8	308.3	297.4	294.9	288.8	282.7	280.3
55°	3431.9	2538.6	901.9	418.0	330.3	291.3	284.0	282.7	279.1	269.3	266.9
57.5°	3469.7	2520.3	853.1	407.1	325.4	280.3	270.6	273.0	268.1	259.6	258.4
60°	3466.1	2393.6	742.2	392.4	314.4	268.1	255.9	263.2	263.2	253.5	252.3
62.5°	3255.2	2101.1	606.9	364.4	302.2	255.9	242.5	253.5	257.2	251.1	249.8
65°	2817.7	1711.1	507.0	336.4	284.0	242.5	229.1	241.3	247.4	245.0	243.7
67.5°	2331.4	1308.9	421.7	299.8	260.8	224.2	213.3	221.8	225.5	226.7	227.9
70°	1647.7	871.4	352.2	259.6	229.1	204.7	192.6	193.8	192.6	196.2	196.2
72.5°	895.8	502.1	286.4	220.6	197.4	177.9	169.4	163.3	163.3	162.1	162.1
73°	766.6	450.9	273.0	214.5	188.9	173.1	163.3	158.4	158.4	157.2	156.0
75°	430.2	330.3	234.0	184.0	163.3	151.1	143.8	136.5	135.3	135.3	135.3
77.5°	282.7	257.2	186.5	147.5	131.6	120.7	118.2	110.9	110.9	110.9	109.7
80°	212.1	202.3	143.8	112.1	101.2	92.6	90.2	85.3	84.1	79.2	80.4
82.5°	141.4	159.7	104.8	79.2	68.2	63.4	63.4	62.2	58.5	52.4	52.4
85°	112.1	130.4	75.6	48.7	40.2	34.1	35.3	34.1	32.9	26.8	25.6
87.5°	20.7	52.4	21.9	13.4	9.7	6.1	6.1	3.7	2.4	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)