

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: P480882

Luminaire Tested: **IFLD-S-SA2B-740-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480882
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

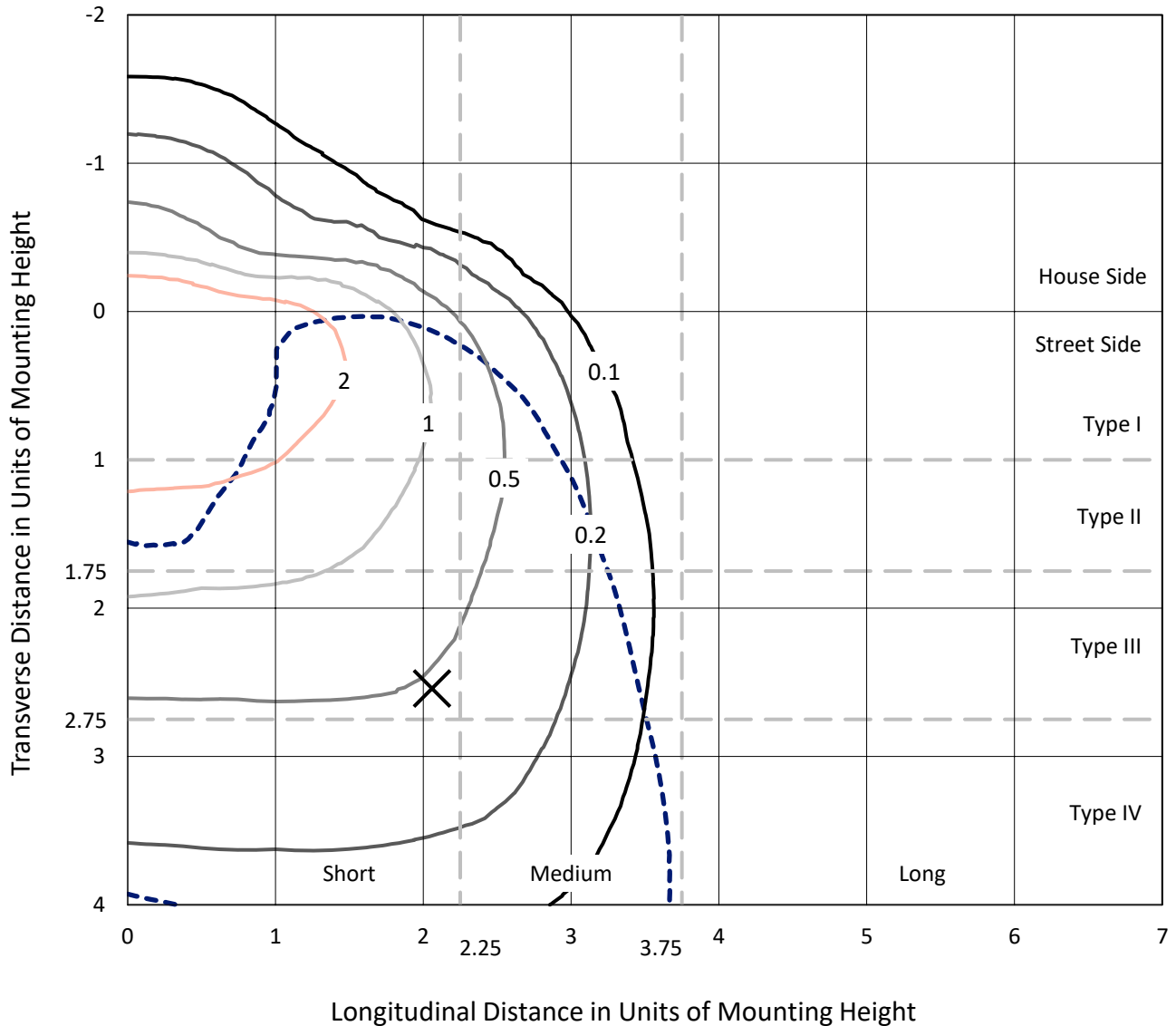
Lumens per Lamp: N/A
Luminaire Lumens: 11044.2 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

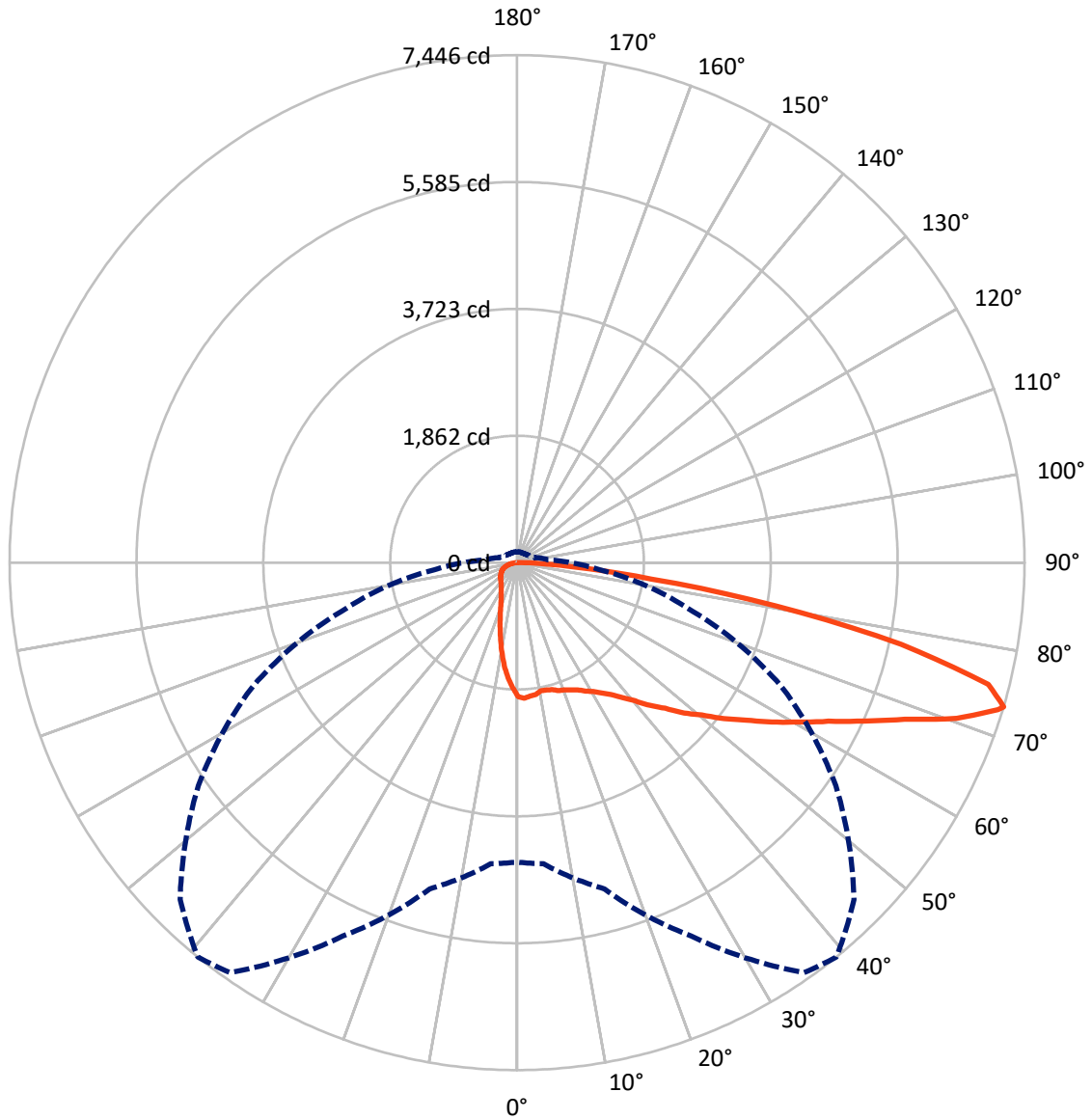
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 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	1552.5	0.0	1552.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9491.7	0.0	9491.7
	% Fixture	85.9	0.0	85.9
Total	Lumens	11044.2	0.0	11044.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	1.5
10°-20°	433.8	3.9
20°-30°	663.0	6.0
30°-40°	966.6	8.8
40°-50°	1460.6	13.2
50°-60°	2115.1	19.2
60°-70°	2687.3	24.3
70°-80°	2178.5	19.7
80°-90°	368.6	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°	11044.2	100.0
0°-180°	11044.2	100.0

Coefficient of Utilization



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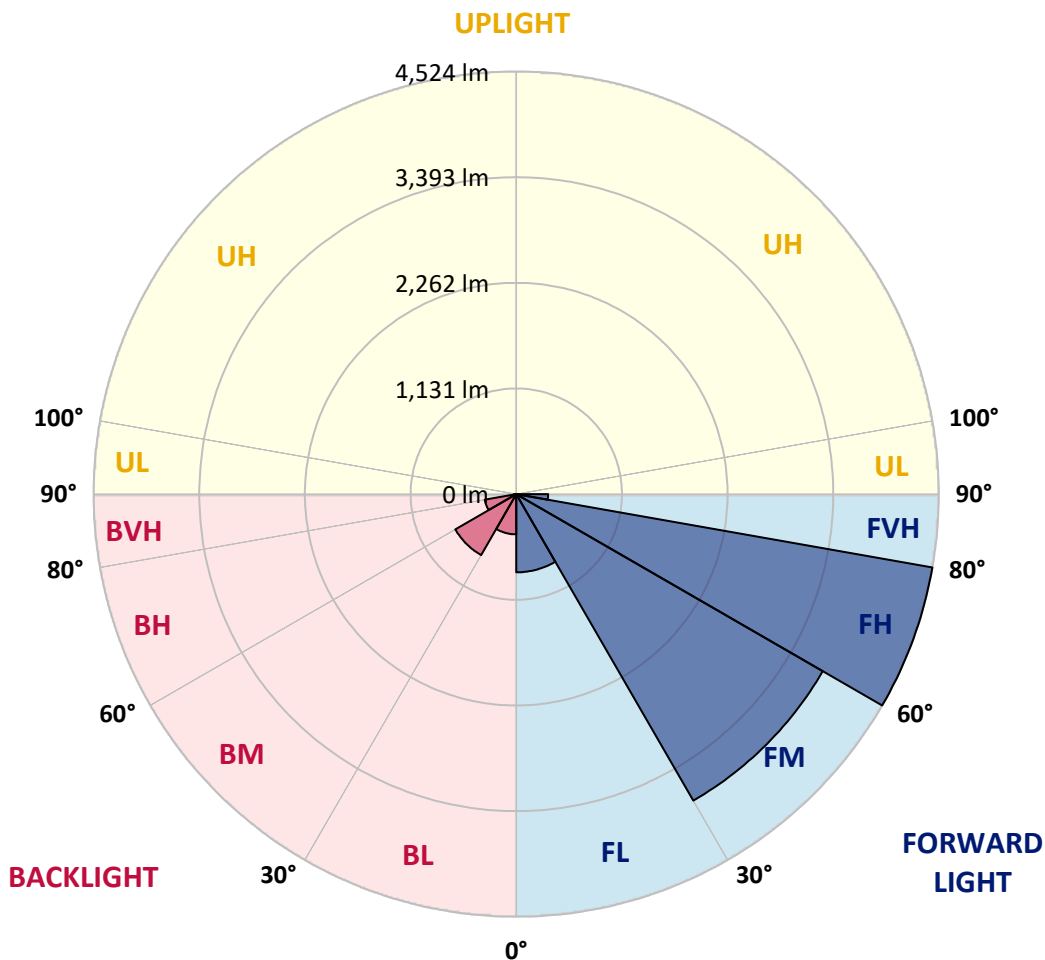
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.9	7.6			
FM (30°-60°)	3788.9	34.3			
FH (60°-80°)	4524.4	41.0			G2/5000
FVH (80°-90°)	341.6	3.1			G3/500
BL (0°-30°)	430.5	3.9	B1/500		
BM (30°-60°)	753.5	6.8	B1/1000		
BH (60°-80°)	341.5	3.1	B1/500		G1/500
BVH (80°-90°)	27.0	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°	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9
2.5°	2012.9	1991.9	1995.6	1988.2	1995.6	1993.1	1989.4	1970.9	1989.4	1970.9	1965.9
5°	1985.7	1985.7	1998.1	1979.5	1982.0	1969.6	1982.0	1968.4	1956.0	1925.2	1916.5
7.5°	1977.1	1975.8	1977.1	1951.1	1963.5	1956.0	1943.7	1928.9	1904.1	1884.4	1856.0
10°	1917.7	1930.1	1916.5	1923.9	1933.8	1911.6	1910.3	1906.6	1895.5	1869.5	1852.3
12.5°	1885.6	1906.6	1914.0	1907.9	1916.5	1919.0	1911.6	1906.6	1893.0	1875.7	1826.3
15°	1899.2	1874.5	1895.5	1936.3	1927.6	1933.8	1935.0	1930.1	1923.9	1891.8	1859.7
17.5°	1902.9	1888.1	1932.6	1941.2	1952.3	1974.6	1959.8	1958.5	1935.0	1912.8	1865.8
20°	1911.6	1905.4	1941.2	1986.9	1988.2	1991.9	1999.3	1980.8	1968.4	1930.1	1858.4
22.5°	1943.7	1964.7	1998.1	2017.8	2028.9	2031.4	2031.4	1994.4	1980.8	1949.9	1893.0
25°	2040.1	2017.8	2064.8	2088.3	2072.2	2068.5	2059.8	2026.5	2011.7	1984.5	1909.1
27.5°	2110.5	2109.3	2136.5	2168.6	2125.3	2134.0	2103.1	2093.2	2059.8	2045.0	1937.5
30°	2206.9	2234.1	2232.8	2242.7	2185.9	2195.8	2156.2	2137.7	2119.2	2127.8	2021.5
32.5°	2330.5	2320.6	2336.6	2329.2	2272.4	2281.0	2234.1	2205.6	2211.8	2237.8	2136.5
35°	2409.5	2399.6	2405.8	2405.8	2388.5	2378.6	2358.9	2321.8	2351.5	2399.6	2265.0
37.5°	2494.8	2507.1	2543.0	2535.6	2513.3	2513.3	2510.9	2484.9	2523.2	2641.8	2470.1
40°	2570.2	2603.5	2625.8	2640.6	2666.5	2666.5	2687.6	2672.7	2741.9	2932.2	2720.9
42.5°	2649.2	2650.5	2771.6	2782.7	2840.8	2865.5	2881.6	2893.9	3023.7	3236.2	2989.1
45°	2750.6	2756.8	2863.0	2948.3	3038.5	3047.1	3107.7	3148.5	3307.9	3568.6	3280.7
47.5°	2884.0	2876.6	2990.3	3126.2	3238.7	3298.0	3370.9	3415.4	3611.8	3929.4	3599.5
50°	3059.5	3037.2	3102.7	3316.5	3448.7	3514.2	3644.0	3718.1	3947.9	4274.1	3818.2
52.5°	3273.3	3236.2	3288.1	3521.6	3669.9	3802.1	3925.7	4008.5	4248.2	4541.0	3980.1
55°	3499.4	3422.8	3437.6	3739.1	3952.9	4077.7	4247.0	4333.5	4578.1	4780.8	4141.9
57.5°	3723.0	3674.8	3645.2	3947.9	4290.2	4410.1	4565.8	4678.2	4885.8	4993.3	4279.1
60°	3910.9	3898.5	3850.3	4271.7	4647.3	4749.9	4913.0	4982.2	5139.1	5189.8	4281.6
62.5°	4065.3	4023.3	4099.9	4532.4	5010.6	5126.7	5305.9	5312.1	5423.3	5312.1	4155.5
65°	4186.4	4188.9	4311.2	4847.5	5430.7	5602.5	5747.0	5731.0	5659.3	5239.2	3857.7
67.5°	4296.4	4343.3	4522.5	5193.5	5970.7	6132.6	6293.2	6080.7	5723.6	4898.1	3275.7
70°	4382.9	4429.8	4807.9	5614.8	6607.1	6844.3	6880.1	6219.1	5428.2	4149.3	2471.3
72.5°	4373.0	4458.3	4969.8	5950.9	7171.8	7376.9	7087.7	5829.8	4522.5	2892.7	1442.0
73°	4394.0	4436.0	4956.2	6044.8	7343.5	7446.1	6991.4	5707.5	4265.5	2594.9	1219.6
75°	3988.7	4130.8	4710.3	5891.6	7159.4	7140.9	6437.8	4756.0	3032.3	1362.9	590.6
77.5°	2950.8	3041.0	3711.9	4845.0	5876.8	5758.2	4856.1	3039.7	1439.5	505.4	318.8
80°	1442.0	1512.4	1967.2	2797.5	3842.9	3852.8	3013.8	1581.6	616.6	285.4	217.5
82.5°	720.4	762.4	945.3	1229.5	1890.6	1980.8	1528.5	899.6	381.8	161.9	123.6
85°	470.8	500.4	582.0	601.8	801.9	846.4	711.7	701.9	248.4	87.7	100.1
87.5°	312.6	317.6	357.1	304.0	321.3	308.9	343.5	442.4	72.9	37.1	27.2
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°	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9	1965.9
2.5°	1959.8	1942.5	1923.9	1898.0	1879.4	1851.0	1825.1	1813.9	1811.5	1812.7	1800.4
5°	1909.1	1884.4	1847.3	1794.2	1763.3	1716.3	1676.8	1655.8	1633.5	1637.2	1627.4
7.5°	1838.7	1811.5	1754.6	1692.9	1616.2	1549.5	1512.4	1460.5	1430.9	1408.6	1421.0
10°	1816.4	1769.5	1684.2	1598.9	1480.3	1392.6	1307.3	1248.0	1207.2	1167.7	1185.0
12.5°	1805.3	1758.3	1639.7	1513.7	1360.5	1227.0	1107.1	1034.2	976.2	941.6	955.2
15°	1795.4	1737.3	1597.7	1419.8	1248.0	1072.6	937.9	841.5	785.9	752.5	756.2
17.5°	1809.0	1726.2	1535.9	1328.3	1124.4	936.6	787.1	687.0	630.2	609.2	604.2
20°	1795.4	1713.9	1475.4	1236.9	1000.9	806.9	663.5	580.8	541.2	523.9	520.2
22.5°	1800.4	1684.2	1412.4	1135.6	886.0	698.1	580.8	517.7	486.8	478.2	480.7
25°	1823.8	1666.9	1349.3	1024.4	772.3	617.8	527.6	479.4	457.2	448.5	451.0
27.5°	1841.1	1681.7	1292.5	919.3	675.9	546.2	483.1	451.0	436.2	430.0	428.8
30°	1884.4	1690.4	1236.9	825.4	596.8	499.2	452.3	426.3	416.4	412.7	411.5
32.5°	1948.6	1706.4	1172.6	738.9	538.7	454.7	427.5	405.3	402.8	399.1	400.4
35°	2053.7	1762.0	1101.0	664.8	483.1	425.1	401.6	386.8	386.8	386.8	390.5
37.5°	2204.4	1839.9	1036.7	594.4	447.3	399.1	379.3	374.4	371.9	375.6	378.1
40°	2398.4	1933.8	984.8	538.7	416.4	381.8	364.5	362.0	360.8	359.6	362.0
42.5°	2610.9	2053.7	940.3	495.5	394.2	363.3	350.9	348.5	343.5	346.0	349.7
45°	2822.2	2201.9	900.8	460.9	379.3	353.4	336.1	334.9	332.4	331.2	337.3
47.5°	3057.0	2347.7	888.4	439.9	368.2	338.6	326.2	325.0	317.6	316.3	321.3
50°	3239.9	2455.3	902.0	430.0	352.2	327.4	318.8	312.6	306.4	300.3	300.3
52.5°	3365.9	2529.4	911.9	422.6	343.5	312.6	301.5	299.0	292.9	286.7	284.2
55°	3479.6	2573.9	914.4	423.8	334.9	295.3	287.9	286.7	283.0	273.1	270.6
57.5°	3517.9	2555.3	865.0	412.7	329.9	284.2	274.3	276.8	271.8	263.2	262.0
60°	3514.2	2426.8	752.5	397.9	318.8	271.8	259.5	266.9	266.9	257.0	255.8
62.5°	3300.4	2130.3	615.4	369.5	306.4	259.5	245.9	257.0	260.7	254.5	253.3
65°	2856.8	1734.9	514.0	341.0	287.9	245.9	232.3	244.7	250.8	248.4	247.1
67.5°	2363.8	1327.1	427.5	304.0	264.4	227.4	216.2	224.9	228.6	229.8	231.1
70°	1670.6	883.5	357.1	263.2	232.3	207.6	195.2	196.5	195.2	198.9	198.9
72.5°	908.2	509.1	290.4	223.7	200.2	180.4	171.8	165.6	165.6	164.3	164.3
73°	777.2	457.2	276.8	217.5	191.5	175.5	165.6	160.6	160.6	159.4	158.2
75°	436.2	334.9	237.2	186.6	165.6	153.2	145.8	138.4	137.2	137.2	137.2
77.5°	286.7	260.7	189.1	149.5	133.5	122.3	119.9	112.4	112.4	112.4	111.2
80°	215.0	205.1	145.8	113.7	102.6	93.9	91.4	86.5	85.3	80.3	81.6
82.5°	143.3	161.9	106.3	80.3	69.2	64.3	64.3	63.0	59.3	53.1	53.1
85°	113.7	132.2	76.6	49.4	40.8	34.6	35.8	34.6	33.4	27.2	25.9
87.5°	21.0	53.1	22.2	13.6	9.9	6.2	6.2	3.7	2.5	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)