

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: P480374

Luminaire Tested: **IFLD-S-SA2A-727-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480374
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-727-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

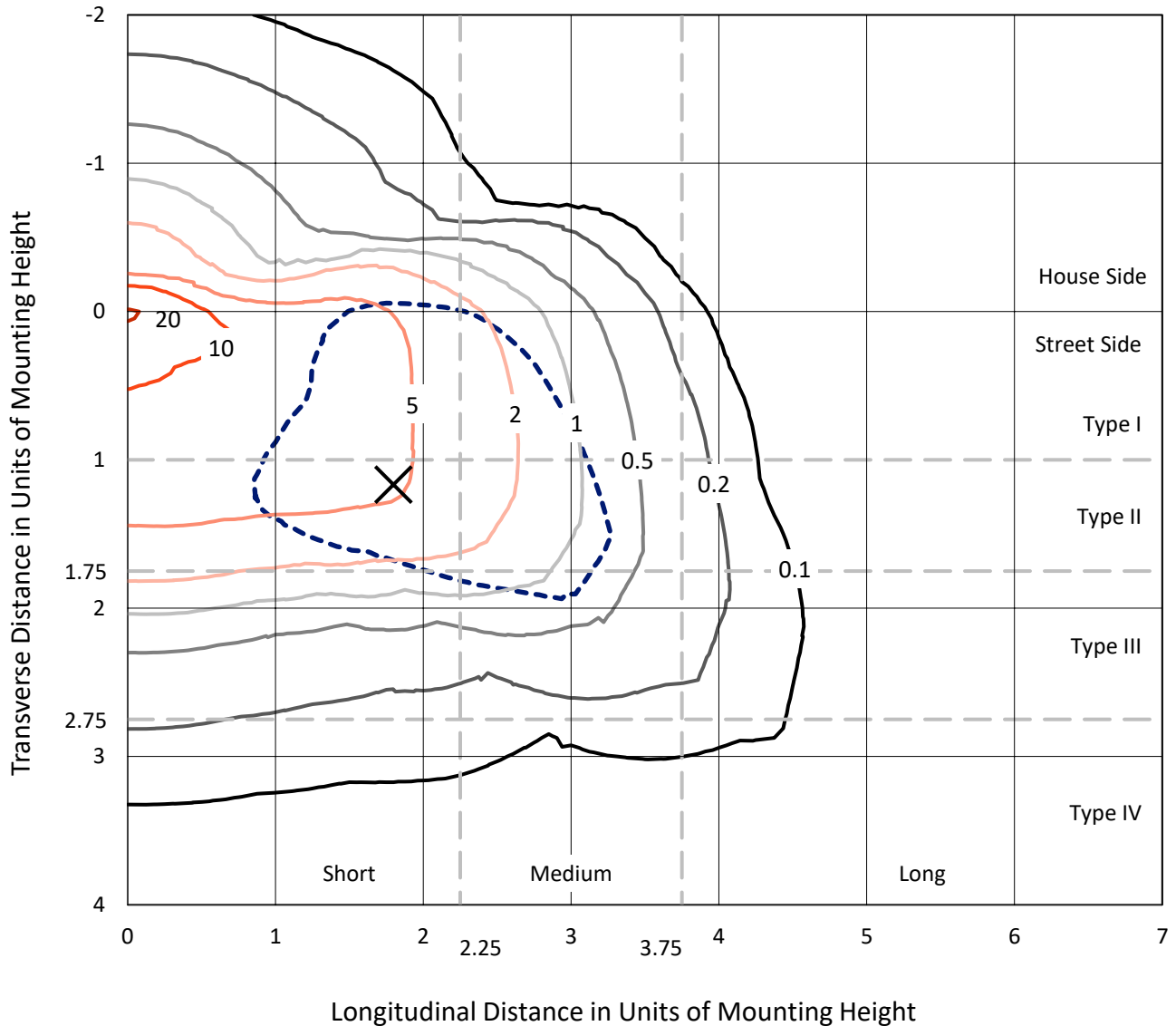
Lumens per Lamp: N/A
Luminaire Lumens: 7618.4 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63.8
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

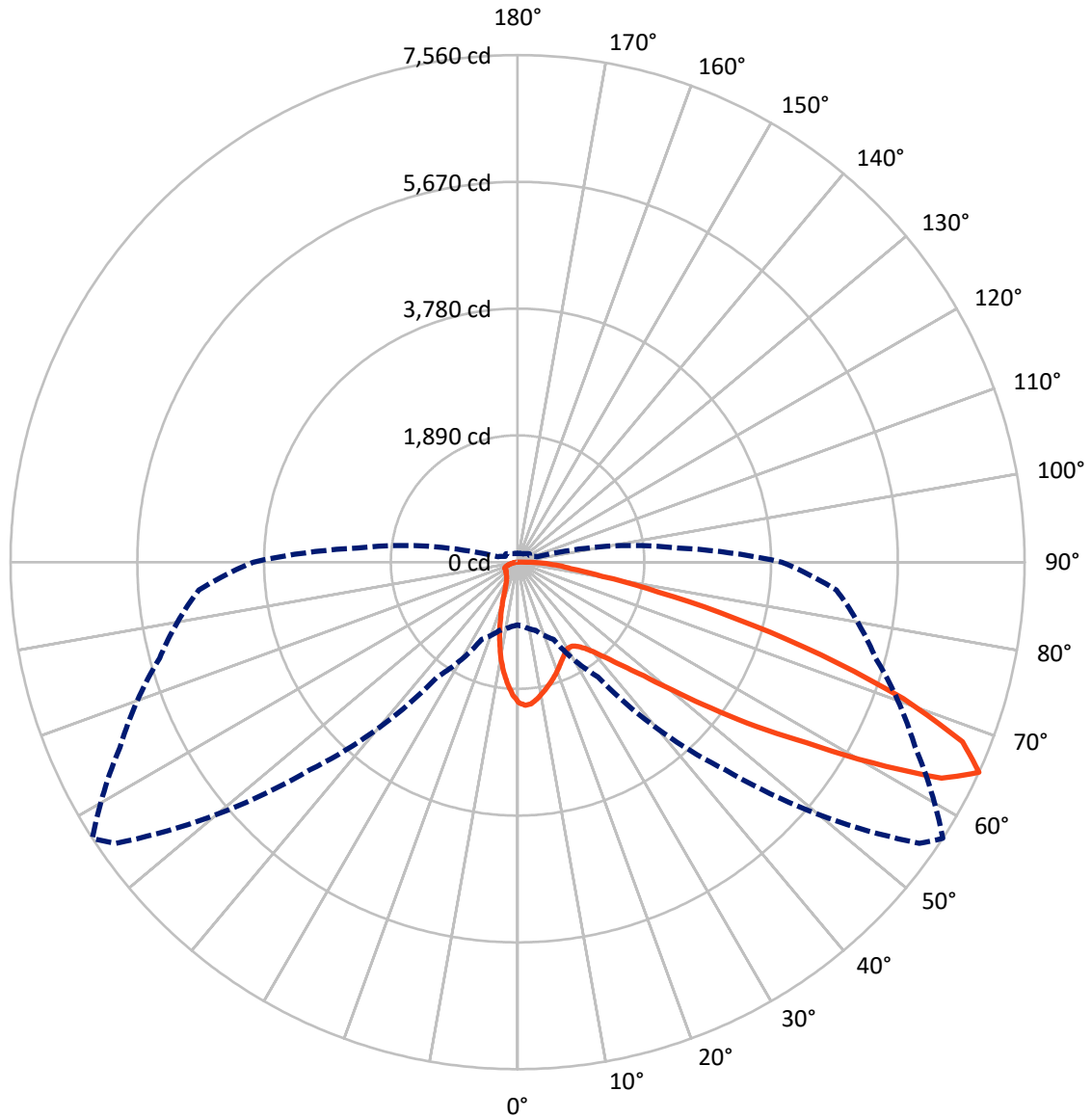
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21 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	1168.4	0.0	1168.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	6450.1	0.0	6450.1
	% Fixture	84.7	0.0	84.7
Total	Lumens	7618.4	0.0	7618.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.4	2.3
10°-20°	377.6	5.0
20°-30°	488.2	6.4
30°-40°	656.9	8.6
40°-50°	1047.5	13.7
50°-60°	1850.1	24.3
60°-70°	2035.3	26.7
70°-80°	851.4	11.2
80°-90°	136.1	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°	7618.4	100.0
0°-180°	7618.4	100.0

Coefficient of Utilization



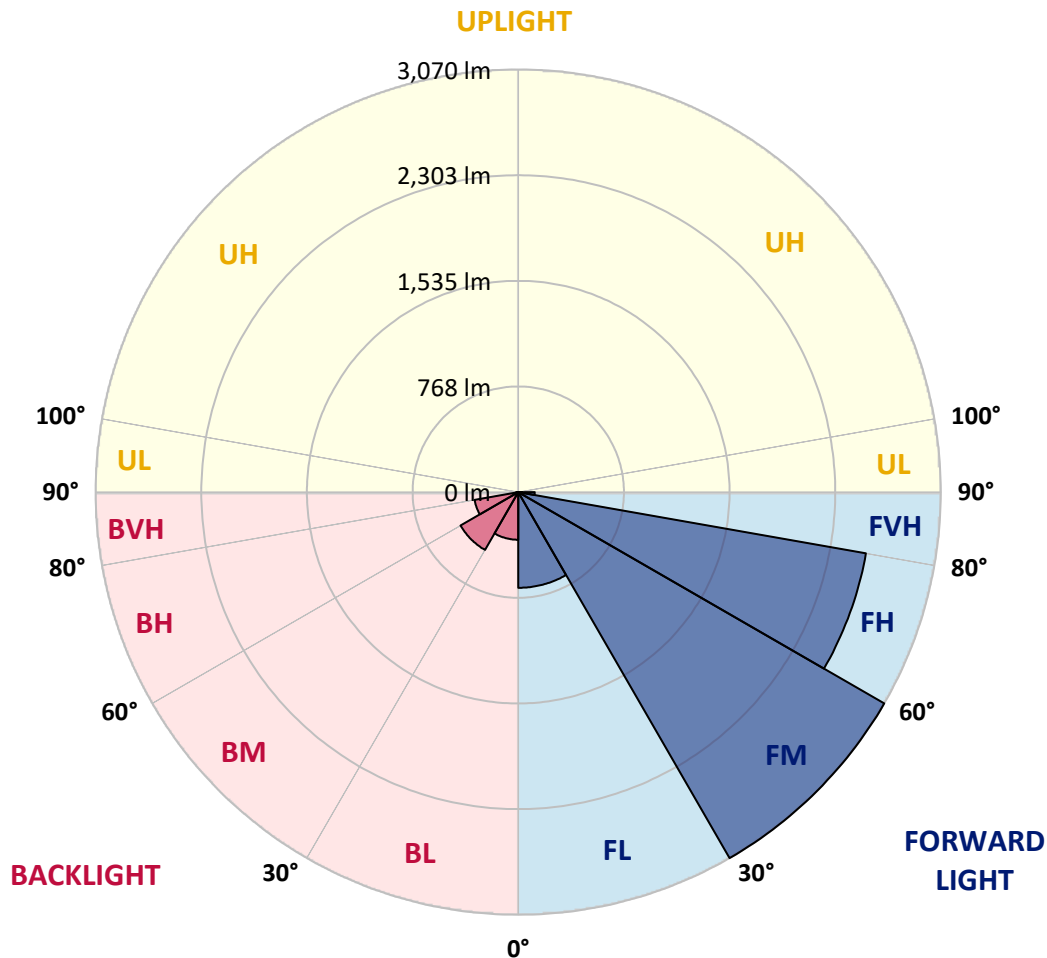
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.2	9.1			
FM (30°-60°)	3070.2	40.3			
FH (60°-80°)	2564.6	33.7			G2/5000
FVH (80°-90°)	120.1	1.6			G2/225
BL (0°-30°)	346.0	4.5	B1/500		
BM (30°-60°)	484.2	6.4	B1/1000		
BH (60°-80°)	322.2	4.2	B1/500		G1/500
BVH (80°-90°)	16.0	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0
2.5°	2151.5	2155.0	2155.0	2161.8	2138.7	2149.8	2148.1	2137.8	2141.2	2123.2	2105.2
5°	2090.7	2088.1	2101.8	2103.5	2121.5	2126.7	2131.0	2124.1	2125.8	2086.4	2069.2
7.5°	1934.7	1933.8	1957.0	1976.7	2014.4	2049.5	2072.7	2065.8	2075.2	2050.4	2010.1
10°	1749.5	1769.2	1793.2	1812.9	1882.4	1926.9	1987.0	1993.0	2029.0	2023.0	1950.1
12.5°	1610.6	1619.2	1637.2	1693.8	1757.2	1830.9	1916.7	1924.4	1959.5	1976.7	1913.2
15°	1496.6	1504.4	1527.5	1569.5	1640.6	1728.1	1836.9	1856.7	1926.9	1932.9	1865.2
17.5°	1413.5	1419.5	1434.9	1476.9	1535.2	1647.5	1750.4	1785.5	1878.1	1907.2	1815.5
20°	1380.9	1368.1	1376.6	1403.2	1461.5	1548.1	1680.9	1711.8	1830.1	1887.5	1768.4
22.5°	1366.4	1355.2	1360.4	1358.6	1404.9	1466.6	1606.4	1638.9	1784.7	1864.4	1726.4
25°	1377.5	1377.5	1372.4	1368.1	1373.2	1413.5	1525.8	1576.4	1723.8	1844.7	1683.5
27.5°	1437.5	1414.4	1416.9	1398.9	1393.8	1393.8	1489.8	1519.8	1704.1	1833.5	1648.4
30°	1476.1	1487.2	1488.1	1461.5	1434.9	1386.9	1456.4	1485.5	1687.8	1847.2	1627.8
32.5°	1574.6	1569.5	1554.9	1549.8	1510.4	1456.4	1472.6	1492.4	1678.4	1878.1	1633.8
35°	1673.2	1670.7	1671.5	1668.9	1627.8	1548.1	1516.4	1542.9	1695.5	1932.1	1654.4
37.5°	1775.2	1782.1	1811.2	1811.2	1767.5	1680.9	1638.9	1631.2	1758.1	2020.4	1703.2
40°	1877.2	1894.4	1931.2	1989.5	1927.8	1847.2	1779.5	1767.5	1833.5	2138.7	1820.7
42.5°	1975.0	2003.2	2076.1	2162.7	2142.1	2061.5	1971.5	1957.8	1988.7	2314.4	1984.4
45°	2100.1	2124.1	2239.0	2371.8	2400.1	2329.0	2223.5	2212.4	2210.7	2571.6	2209.8
47.5°	2290.4	2316.1	2431.0	2564.7	2652.1	2663.3	2545.0	2533.0	2491.8	2918.7	2539.8
50°	2528.7	2570.7	2667.6	2823.6	2950.4	3069.6	3036.1	3001.0	2920.4	3322.4	2958.1
52.5°	2702.7	2754.1	2885.3	3085.0	3308.7	3498.2	3618.2	3618.2	3433.0	3765.6	3461.3
55°	2749.0	2779.8	2945.3	3234.2	3617.3	4096.5	4347.6	4328.8	4043.3	4231.9	4046.8
57.5°	2564.7	2605.0	2805.6	3108.1	3779.3	4656.2	5072.0	5076.2	4710.2	4773.7	4624.5
60°	2057.2	2070.1	2306.7	2711.3	3623.3	5107.1	6061.1	6077.4	5468.8	5256.2	4918.5
62.5°	1422.1	1463.2	1641.5	1996.4	3001.9	5056.5	7015.2	7095.8	6076.6	5510.8	4964.8
65°	936.0	960.9	1056.1	1272.1	2089.8	4382.8	7311.8	7560.4	6541.2	5525.4	4771.1
67.5°	678.9	683.2	711.5	822.9	1255.8	3151.9	6805.2	7155.8	6715.2	5403.7	4316.8
70°	548.6	552.0	562.3	633.5	810.9	1972.4	5550.3	6099.7	6193.2	4826.8	3476.7
72.5°	445.7	450.0	462.9	529.7	668.6	1097.2	4058.8	4728.2	5037.7	3571.0	2311.0
75°	350.6	354.0	384.9	450.9	628.3	753.5	2692.4	3348.2	3390.2	2087.2	1081.8
77.5°	240.0	246.0	283.7	382.3	591.5	659.2	1678.4	2144.7	1924.4	816.9	372.0
80°	152.6	161.2	183.4	289.7	522.9	629.2	1044.0	1280.6	842.6	279.4	179.2
82.5°	90.0	98.6	120.9	187.7	410.6	583.7	735.5	801.5	395.2	143.1	108.0
85°	49.7	55.7	72.9	113.1	240.9	518.6	588.9	575.2	226.3	76.3	67.7
87.5°	16.3	18.9	26.6	45.4	99.4	244.3	353.2	331.7	117.4	35.1	26.6
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°	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0	2095.0
2.5°	2093.2	2090.7	2052.1	2023.0	1973.2	1932.1	1915.8	1893.5	1892.7	1876.4	1872.1
5°	2042.7	2016.1	1957.0	1900.4	1812.1	1752.9	1698.9	1661.2	1645.8	1612.4	1604.6
7.5°	1977.5	1942.4	1851.5	1745.2	1641.5	1548.9	1464.9	1380.9	1333.8	1317.5	1299.5
10°	1909.8	1848.1	1713.5	1594.4	1449.5	1307.2	1175.2	1056.9	992.6	947.2	927.5
12.5°	1855.8	1773.5	1602.1	1423.8	1232.6	1042.3	888.9	764.6	691.7	657.5	642.0
15°	1794.9	1686.1	1480.4	1254.9	1016.6	800.6	650.6	552.9	523.7	507.5	504.9
17.5°	1730.7	1604.6	1348.3	1088.6	805.8	602.6	505.7	466.3	453.5	446.6	443.2
20°	1670.7	1531.8	1212.9	903.5	630.9	483.5	438.0	417.4	416.6	420.0	419.2
22.5°	1585.8	1436.6	1079.2	732.0	504.0	420.9	391.7	386.6	391.7	396.0	397.7
25°	1537.8	1358.6	930.0	581.2	416.6	373.7	364.3	362.6	370.3	375.4	374.6
27.5°	1488.1	1278.1	791.2	465.5	365.2	340.3	338.6	340.3	348.0	355.7	354.9
30°	1449.5	1213.8	660.9	389.2	325.7	316.3	314.6	316.3	320.6	321.4	321.4
32.5°	1417.8	1137.5	550.3	337.7	301.7	294.0	295.7	294.9	295.7	296.6	297.4
35°	1398.9	1092.1	459.5	306.0	282.0	276.0	275.2	272.6	273.4	274.3	273.4
37.5°	1439.2	1069.8	387.4	283.7	268.3	263.2	261.4	259.7	257.2	257.2	257.2
40°	1500.1	1057.8	343.7	269.2	258.0	252.0	246.9	245.2	245.2	246.0	246.9
42.5°	1620.9	1077.5	313.7	258.0	245.2	238.3	233.2	234.0	236.6	239.2	237.4
45°	1795.8	1137.5	300.0	249.4	237.4	228.0	224.6	223.7	226.3	230.6	234.0
47.5°	2024.7	1230.9	294.9	241.7	232.3	219.4	215.2	217.7	221.2	227.2	224.6
50°	2399.3	1440.9	299.2	234.9	224.6	215.2	210.0	207.4	210.0	214.3	216.0
52.5°	2888.7	1822.4	315.4	231.4	219.4	211.7	203.2	198.9	201.4	204.9	204.9
55°	3474.2	2343.5	360.9	227.2	210.9	206.6	197.2	188.6	190.3	190.3	189.4
57.5°	3990.2	2737.0	414.9	221.2	205.7	199.7	187.7	177.4	175.7	176.6	177.4
60°	4221.6	2841.6	440.6	219.4	205.7	191.2	174.9	164.6	162.0	160.3	160.3
62.5°	4181.3	2660.7	388.3	211.7	210.9	184.3	162.9	151.7	148.3	144.9	145.7
65°	3937.9	2402.7	306.0	201.4	211.7	180.0	150.9	139.7	133.7	129.4	128.6
67.5°	3493.0	2051.2	242.6	193.7	203.2	172.3	140.6	127.7	122.6	118.3	116.6
70°	2732.7	1608.1	210.9	183.4	182.6	153.4	128.6	117.4	109.7	104.6	104.6
72.5°	1771.8	1016.6	180.9	162.9	157.7	128.6	111.4	104.6	98.6	94.3	94.3
75°	802.3	472.3	145.7	136.3	128.6	102.9	94.3	90.9	85.7	81.4	81.4
77.5°	288.0	201.4	108.9	107.1	96.0	79.7	76.3	73.7	70.3	66.0	66.0
80°	161.2	127.7	81.4	78.0	66.9	59.1	54.9	54.9	53.1	50.6	49.7
82.5°	102.0	83.1	60.0	52.3	43.7	39.4	37.7	36.9	36.0	32.6	31.7
85°	64.3	56.6	39.4	30.9	25.7	19.7	18.9	18.0	16.3	14.6	14.6
87.5°	29.1	32.6	15.4	9.4	6.9	4.3	2.6	0.9	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)