

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: P484821

Luminaire Tested: **IFLD-S-SA2B-750-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484821
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (32) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

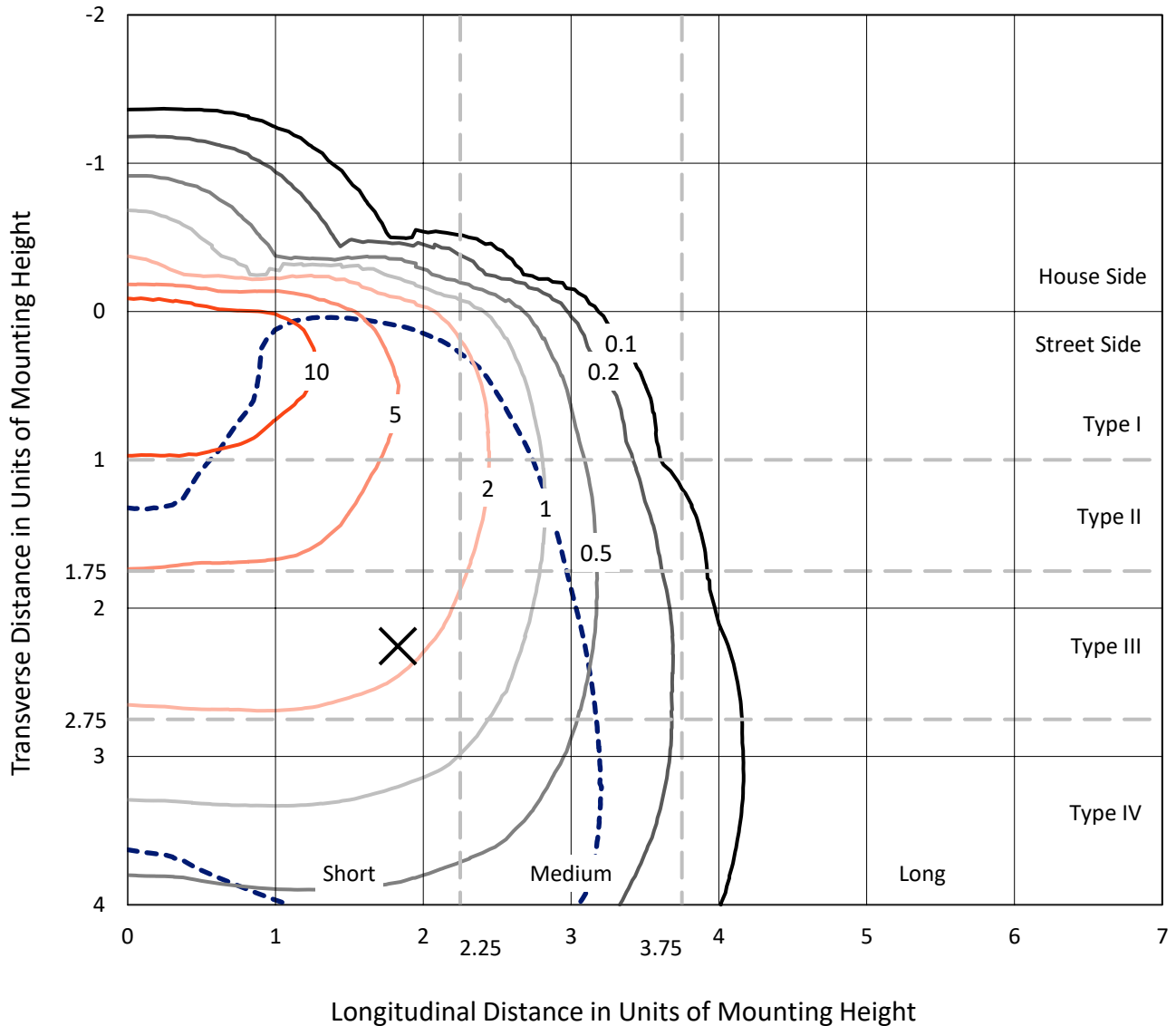
Lumens per Lamp: N/A
Luminaire Lumens: 9648.4 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

REPORT NUMBER: P484821
 CATALOG NUMBER: IFLD-S-SA2B-750-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

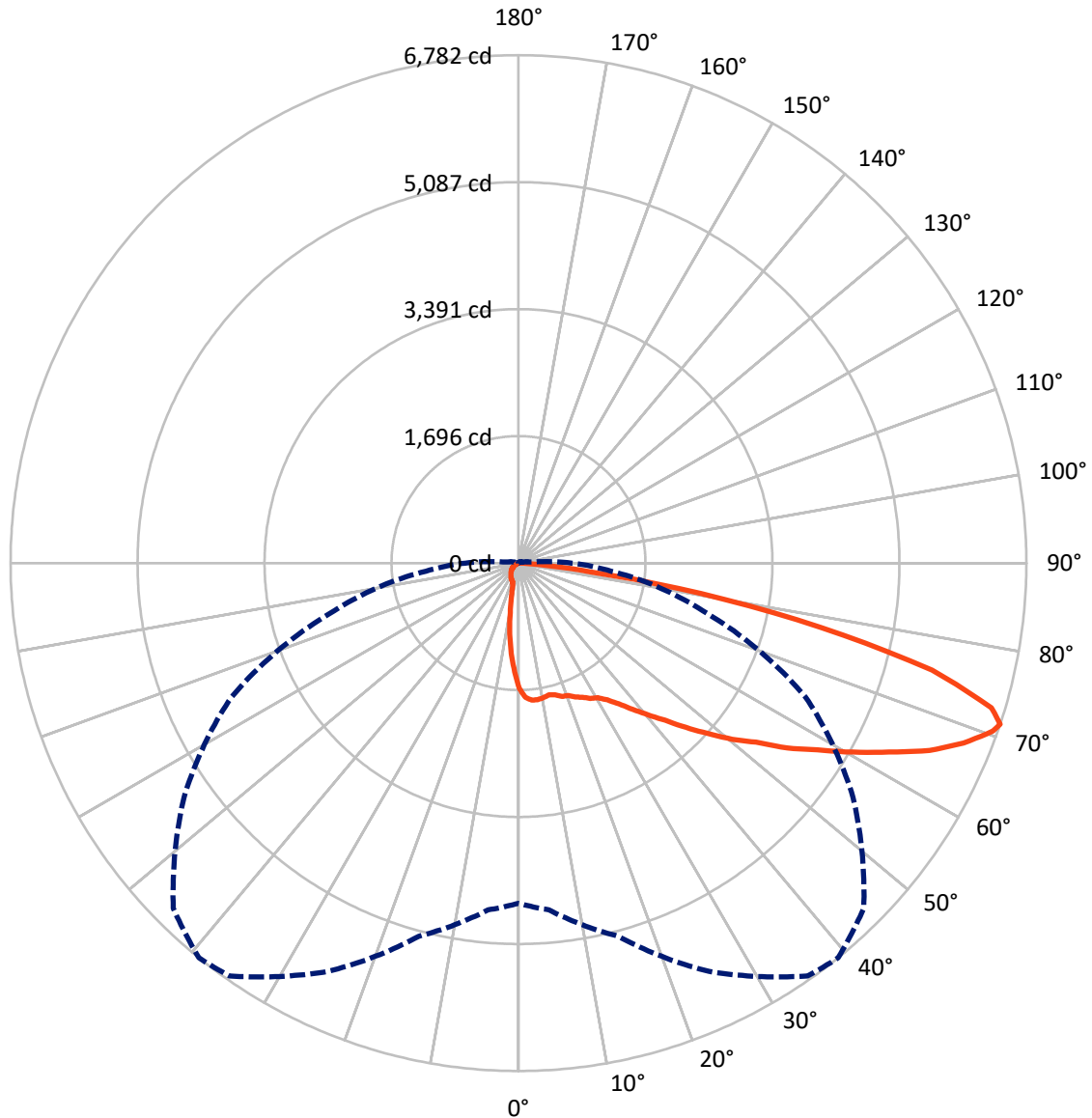
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P484821
CATALOG NUMBER: IFLD-S-SA2B-750-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P484821
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	726.4	0.0	726.4
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	8922.0	0.0	8922.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	9648.4	0.0	9648.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.4	1.5
10°-20°	345.6	3.6
20°-30°	554.8	5.8
30°-40°	849.2	8.8
40°-50°	1363.2	14.1
50°-60°	2002.3	20.8
60°-70°	2521.8	26.1
70°-80°	1683.0	17.4
80°-90°	188.1	1.9
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°	9648.4	100.0
0°-180°	9648.4	100.0

Coefficient of Utilization



REPORT NUMBER: P484821

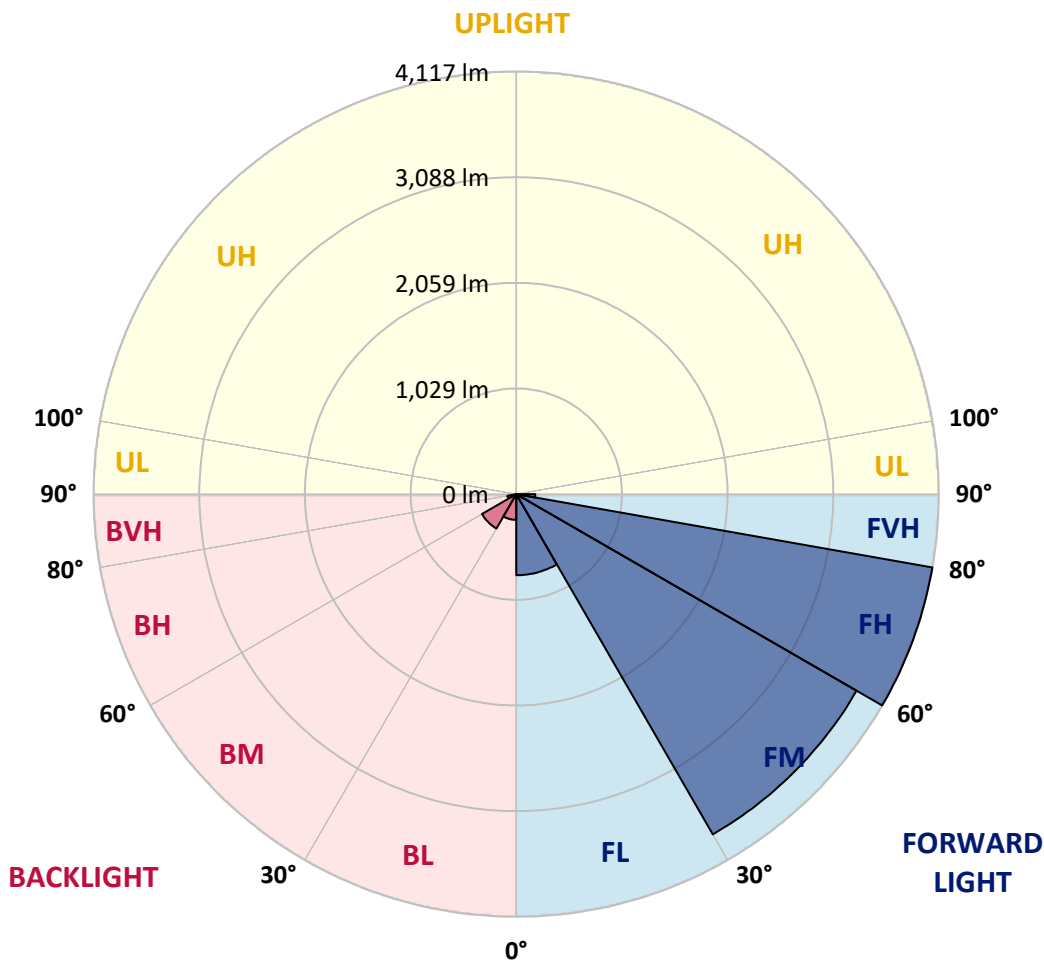
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	790.0	8.2			
FM (30°-60°)	3828.6	39.7			
FH (60°-80°)	4117.4	42.7			G2/5000
FVH (80°-90°)	186.0	1.9			G2/225
BL (0°-30°)	250.8	2.6	B1/500		
BM (30°-60°)	386.1	4.0	B1/1000		
BH (60°-80°)	87.4	0.9	B0/110		G0/110
BVH (80°-90°)	2.1	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-G2

Type IV Short





REPORT NUMBER: P484821

CATALOG NUMBER: IFLD-S-SA2B-750-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4
2.5°	1809.7	1827.4	1809.7	1802.1	1794.5	1795.8	1775.6	1779.3	1755.3	1723.7	1698.4
5°	1866.7	1890.7	1871.7	1862.9	1861.6	1837.6	1827.4	1803.4	1774.3	1724.9	1694.6
7.5°	1861.6	1856.5	1865.4	1857.8	1841.4	1841.4	1830.0	1795.8	1766.7	1711.0	1659.1
10°	1823.6	1838.8	1831.2	1822.4	1826.2	1827.4	1805.9	1781.9	1773.0	1717.3	1632.5
12.5°	1819.8	1794.5	1822.4	1823.6	1807.2	1805.9	1803.4	1797.1	1769.2	1718.6	1638.9
15°	1807.2	1797.1	1824.9	1826.2	1830.0	1826.2	1830.0	1824.9	1797.1	1768.0	1666.7
17.5°	1817.3	1805.9	1845.2	1864.1	1855.3	1873.0	1866.7	1843.9	1819.8	1785.7	1693.3
20°	1819.8	1836.3	1879.3	1886.9	1914.8	1885.7	1884.4	1860.3	1845.2	1808.5	1709.7
22.5°	1866.7	1874.3	1927.4	1943.9	1945.1	1941.3	1909.7	1881.9	1875.5	1830.0	1713.5
25°	1937.5	1964.1	1988.2	1998.3	2002.1	1984.4	1951.5	1916.0	1900.8	1871.7	1752.8
27.5°	2062.8	2046.4	2067.9	2083.1	2040.0	2046.4	2004.6	1974.2	1952.7	1927.4	1798.3
30°	2174.2	2159.0	2160.3	2157.7	2121.0	2086.9	2075.5	2022.3	1995.8	2005.9	1869.2
32.5°	2274.2	2241.3	2269.1	2256.5	2188.1	2178.0	2169.1	2102.1	2107.1	2153.9	1975.5
35°	2366.6	2355.2	2377.9	2355.2	2309.6	2307.1	2298.2	2240.0	2267.8	2334.9	2157.7
37.5°	2451.3	2455.1	2483.0	2471.6	2475.4	2477.9	2472.9	2410.9	2490.6	2641.2	2370.4
40°	2529.8	2524.7	2593.1	2628.5	2636.1	2664.0	2664.0	2648.8	2771.5	2941.1	2665.2
42.5°	2613.3	2626.0	2714.6	2774.1	2846.2	2870.2	2903.1	2910.7	3100.6	3294.2	2966.4
45°	2750.0	2728.5	2841.1	2981.6	3044.9	3129.7	3180.3	3223.3	3452.4	3718.2	3267.6
47.5°	2923.4	2880.4	2979.1	3182.8	3329.6	3399.2	3490.4	3547.3	3771.3	4045.9	3552.4
50°	3115.8	3071.5	3119.6	3400.5	3571.3	3697.9	3814.3	3886.5	4157.3	4412.9	3759.9
52.5°	3333.4	3292.9	3300.5	3627.0	3878.9	3971.3	4124.4	4232.0	4501.5	4634.4	3833.3
55°	3565.0	3554.9	3530.9	3848.5	4148.4	4356.0	4448.4	4577.5	4854.6	4754.6	3913.0
57.5°	3797.9	3766.2	3800.4	4142.1	4581.2	4705.3	4833.1	4910.3	5050.8	4859.7	3882.7
60°	4016.8	4019.3	4067.4	4461.0	4949.5	5125.4	5240.6	5193.8	5252.0	4905.2	3813.1
62.5°	4201.6	4196.5	4318.0	4819.2	5436.8	5555.7	5641.8	5433.0	5345.6	4949.5	3691.6
65°	4367.4	4424.3	4615.4	5245.7	5894.9	6031.6	5979.7	5659.5	5436.8	4819.2	3349.9
67.5°	4492.7	4577.5	4909.0	5646.8	6315.0	6411.2	6339.1	5831.6	5329.2	4307.9	2728.5
70°	4566.1	4652.1	5119.1	5980.9	6650.4	6720.0	6550.4	5698.7	4701.5	3119.6	1702.1
71°	4543.3	4648.3	5159.6	6016.4	6730.1	6782.0	6518.8	5453.2	4228.2	2612.1	1241.5
72.5°	4337.0	4435.7	4991.3	5991.1	6634.0	6602.3	6272.0	4863.5	3328.4	1665.4	641.6
75°	3186.6	3292.9	4283.8	5182.4	5921.5	5703.8	5076.1	3413.2	1736.3	510.0	187.3
77.5°	1587.0	1604.7	2658.9	3762.4	4343.3	4126.9	3401.8	1903.4	649.2	150.6	93.6
80°	731.5	736.5	997.2	1948.9	2626.0	2471.6	1905.9	939.0	293.6	79.7	73.4
82.5°	498.6	506.2	601.1	807.4	1140.3	961.8	772.0	601.1	168.3	48.1	72.1
85°	91.1	83.5	336.6	427.8	440.4	298.7	267.0	520.1	63.3	27.8	63.3
87.5°	0.0	1.3	46.8	174.6	156.9	69.6	91.1	126.6	6.3	8.9	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P484821

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4	1679.4
2.5°	1676.8	1662.9	1616.1	1564.2	1517.4	1480.7	1433.9	1412.3	1378.2	1359.2	1357.9
5°	1652.8	1614.8	1533.8	1446.5	1349.1	1268.1	1178.2	1127.6	1069.4	1051.7	1047.9
7.5°	1612.3	1557.9	1438.9	1316.2	1166.8	1023.8	913.7	796.0	723.9	693.5	682.1
10°	1587.0	1521.2	1359.2	1175.7	966.9	765.7	611.3	486.0	420.2	388.5	380.9
12.5°	1587.0	1516.1	1294.6	1041.5	764.4	523.9	378.4	306.3	284.7	277.2	277.2
15°	1583.2	1506.0	1232.6	903.6	565.7	351.8	282.2	267.0	264.5	263.2	262.0
17.5°	1602.2	1488.3	1169.4	755.5	399.9	277.2	259.4	256.9	254.4	254.4	251.8
20°	1616.1	1478.1	1093.4	598.6	298.7	256.9	249.3	245.5	244.2	243.0	245.5
22.5°	1604.7	1463.0	999.8	448.0	260.7	244.2	239.2	235.4	232.9	232.9	234.1
25°	1626.2	1449.0	906.1	337.9	244.2	232.9	227.8	225.3	224.0	222.7	220.2
27.5°	1655.3	1455.4	794.8	272.1	230.3	221.5	216.4	213.9	212.6	210.1	212.6
30°	1690.8	1454.1	672.0	237.9	217.7	208.8	203.8	202.5	200.0	198.7	200.0
32.5°	1751.5	1487.0	545.4	220.2	203.8	196.2	191.1	189.8	188.6	187.3	186.0
35°	1881.9	1527.5	426.5	206.3	191.1	182.2	178.4	175.9	174.6	173.4	172.1
37.5°	2042.6	1617.4	325.2	193.6	178.4	169.6	165.8	164.5	159.5	158.2	156.9
40°	2243.8	1713.5	250.6	179.7	167.1	158.2	154.4	150.6	144.3	141.7	139.2
42.5°	2494.4	1807.2	206.3	167.1	154.4	148.1	141.7	135.4	130.4	125.3	122.8
45°	2745.0	1916.0	181.0	155.7	144.3	136.7	131.6	122.8	113.9	106.3	105.0
47.5°	2953.8	1955.3	165.8	143.0	134.1	127.8	120.2	108.8	96.2	88.6	87.3
50°	3109.4	1932.5	150.6	130.4	122.8	116.4	106.3	92.4	79.7	72.1	69.6
52.5°	3139.8	1832.5	136.7	120.2	111.4	103.8	92.4	77.2	63.3	55.7	54.4
55°	3118.3	1666.7	125.3	111.4	101.2	89.9	77.2	62.0	49.4	41.8	40.5
57.5°	3074.0	1470.6	112.6	100.0	88.6	77.2	63.3	50.6	36.7	29.1	29.1
60°	2923.4	1203.5	100.0	87.3	75.9	65.8	51.9	36.7	25.3	19.0	17.7
62.5°	2713.3	925.1	87.3	74.7	65.8	54.4	40.5	26.6	15.2	10.1	10.1
65°	2329.9	648.0	73.4	62.0	54.4	44.3	30.4	16.5	8.9	3.8	3.8
67.5°	1770.5	401.2	60.7	51.9	46.8	35.4	21.5	10.1	3.8	1.3	0.0
70°	1016.2	208.8	48.1	41.8	36.7	26.6	15.2	5.1	2.5	0.0	0.0
71°	710.0	154.4	43.0	36.7	32.9	24.0	12.7	3.8	1.3	0.0	0.0
72.5°	355.6	102.5	36.7	30.4	26.6	19.0	10.1	3.8	1.3	0.0	0.0
75°	126.6	65.8	25.3	20.2	19.0	13.9	6.3	2.5	1.3	0.0	0.0
77.5°	87.3	53.2	17.7	12.7	12.7	8.9	3.8	1.3	1.3	0.0	0.0
80°	79.7	29.1	11.4	7.6	6.3	5.1	2.5	1.3	0.0	0.0	0.0
82.5°	79.7	21.5	6.3	5.1	3.8	2.5	1.3	0.0	0.0	0.0	0.0
85°	55.7	11.4	3.8	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	3.8	2.5	1.3	1.3	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)