

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: P484159

Luminaire Tested: **IFLD-S-SA2C-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484159
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

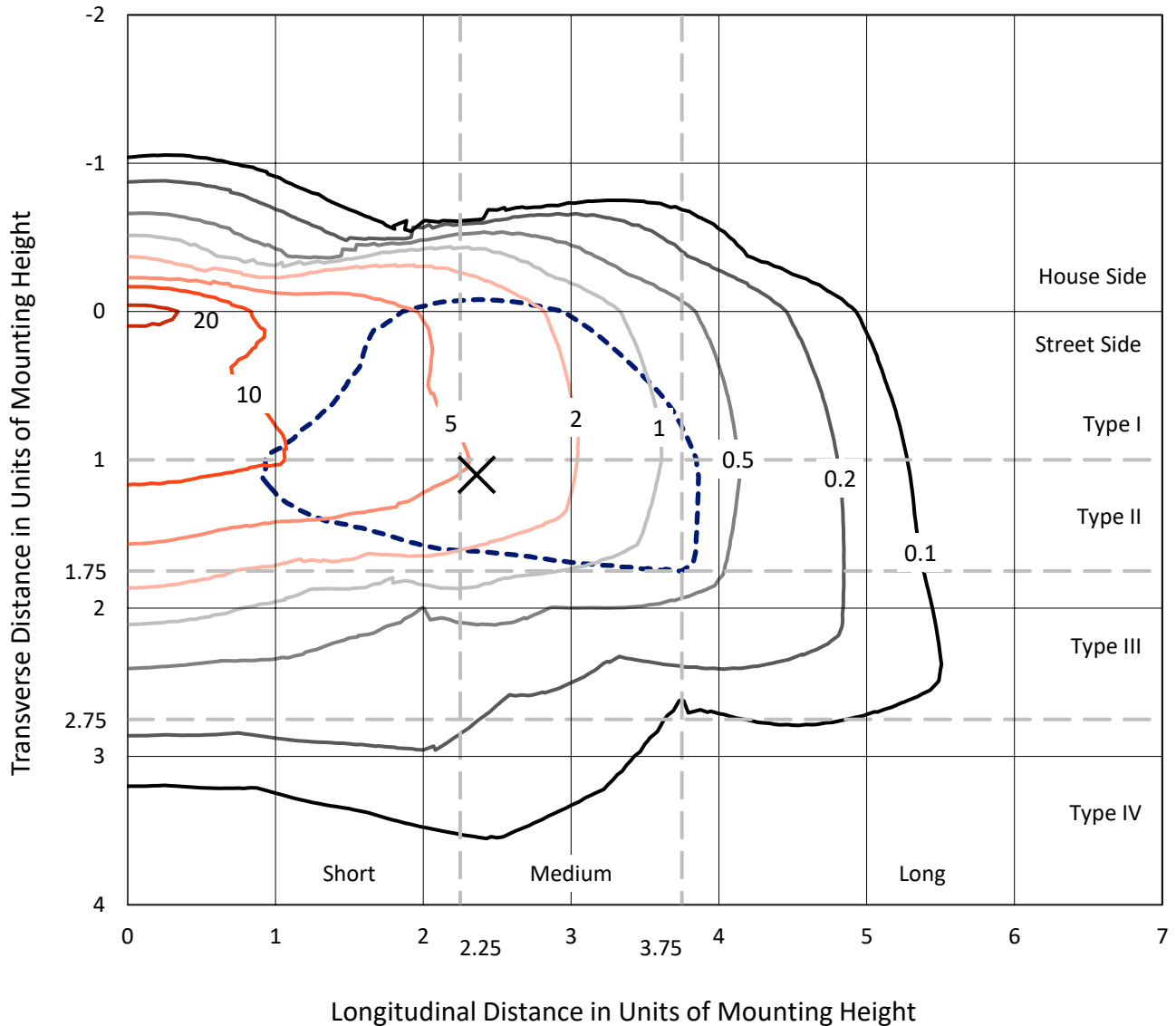
Lumens per Lamp: N/A
Luminaire Lumens: 9295.5 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 108.2
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

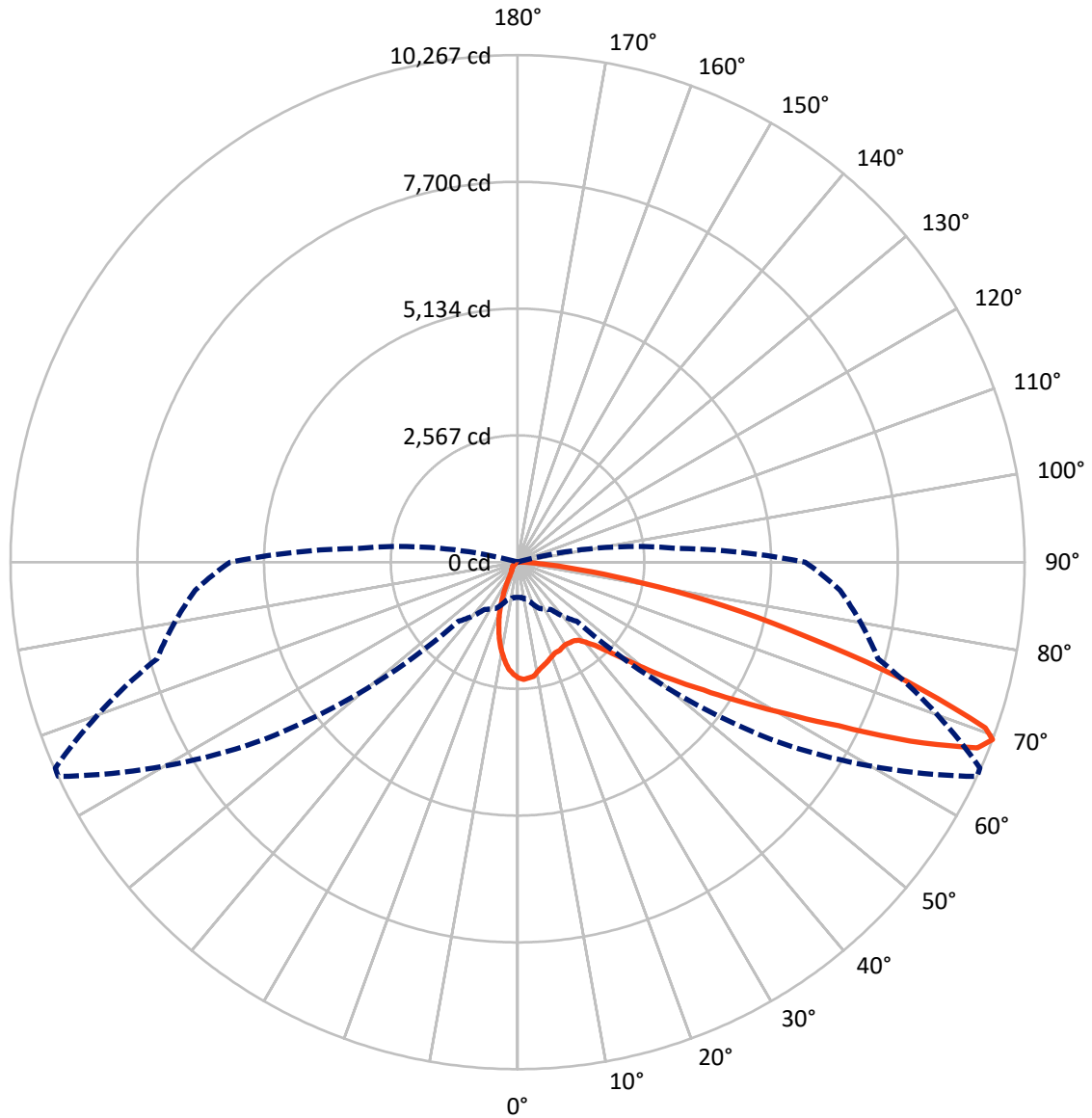
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1127.6	0.0	1127.6
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	8167.9	0.0	8167.9
	% Fixture	87.9	0.0	87.9
Total	Lumens	9295.5	0.0	9295.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.8	2.1
10°-20°	419.6	4.5
20°-30°	584.2	6.3
30°-40°	827.9	8.9
40°-50°	1304.7	14.0
50°-60°	2117.1	22.8
60°-70°	2364.4	25.4
70°-80°	1331.4	14.3
80°-90°	154.5	1.7
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°	9295.5	100.0
0°-180°	9295.5	100.0

Coefficient of Utilization



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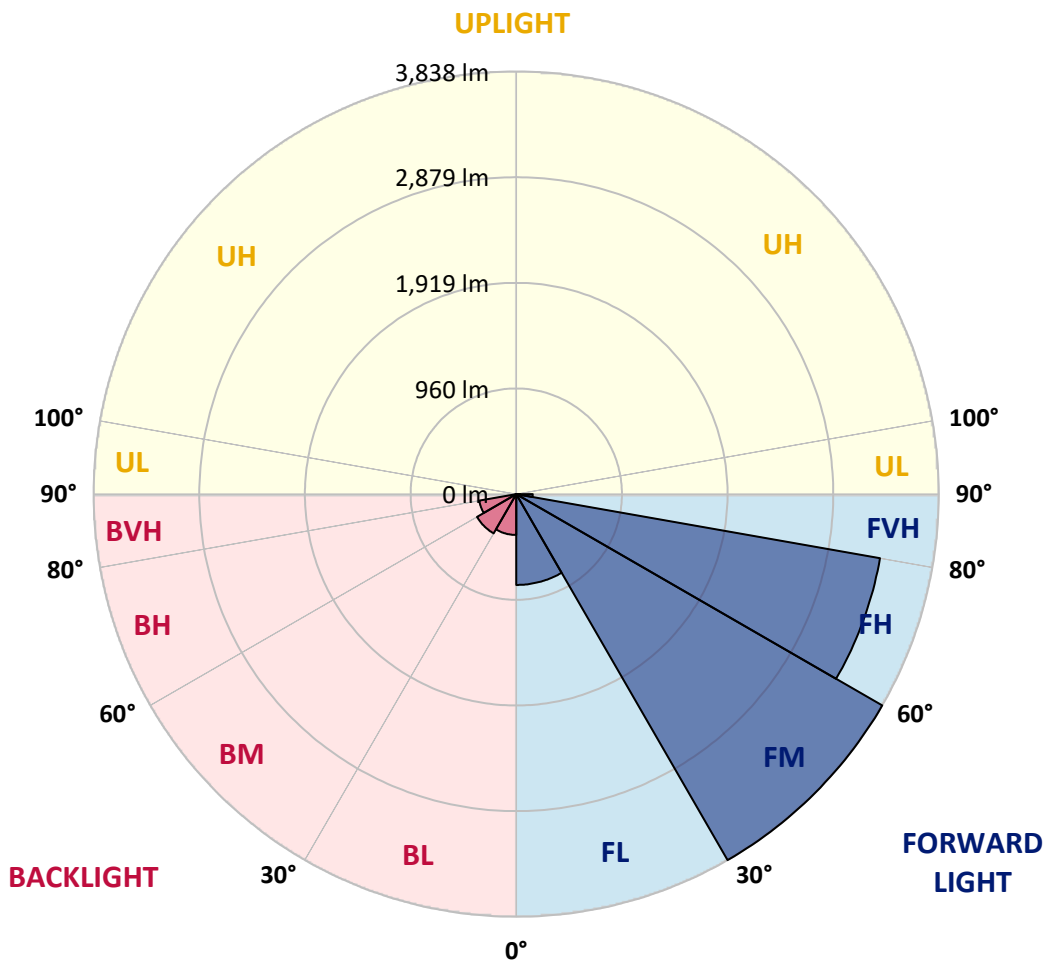
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.9	8.9			
FM (30°-60°)	3838.2	41.3			
FH (60°-80°)	3354.6	36.1			G2/5000
FVH (80°-90°)	150.2	1.6			G2/225
BL (0°-30°)	370.7	4.0	B1/500		
BM (30°-60°)	411.5	4.4	B1/1000		
BH (60°-80°)	341.2	3.7	B1/500		G1/500
BVH (80°-90°)	4.3	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6
2.5°	2257.1	2274.7	2279.7	2297.2	2306.0	2343.6	2364.9	2377.5	2371.2	2385.0	2386.3
5°	2096.6	2086.6	2112.9	2131.7	2171.8	2237.0	2303.5	2354.9	2378.7	2401.3	2397.5
7.5°	1924.8	1919.8	1946.1	1988.8	2025.1	2104.1	2210.7	2337.3	2332.3	2387.5	2403.8
10°	1806.9	1811.9	1820.7	1863.4	1917.3	1997.5	2130.4	2248.3	2274.7	2391.3	2423.9
12.5°	1699.1	1707.9	1724.2	1768.1	1830.8	1913.5	2042.7	2180.6	2220.7	2370.0	2435.2
15°	1664.0	1643.9	1676.5	1709.1	1774.3	1848.3	1957.4	2129.2	2146.7	2344.9	2454.0
17.5°	1635.1	1622.6	1637.6	1664.0	1732.9	1793.1	1896.0	2074.0	2106.6	2334.8	2451.5
20°	1643.9	1632.6	1638.9	1659.0	1690.3	1746.7	1842.0	2021.4	2056.5	2288.4	2447.7
22.5°	1669.0	1677.8	1666.5	1671.5	1681.5	1710.4	1813.2	1983.7	2013.8	2279.7	2469.0
25°	1781.9	1766.8	1751.8	1745.5	1686.6	1699.1	1804.4	1981.2	2002.5	2248.3	2451.5
27.5°	1899.7	1887.2	1880.9	1844.5	1764.3	1726.7	1805.7	1946.1	1975.0	2235.8	2430.1
30°	2042.7	2059.0	2033.9	1990.0	1878.4	1785.6	1819.5	1928.6	1968.7	2188.1	2416.3
32.5°	2193.1	2201.9	2214.5	2181.9	2037.7	1874.6	1860.9	1944.9	1947.4	2188.1	2385.0
35°	2363.7	2351.1	2383.7	2386.3	2259.6	2032.6	1939.8	1956.2	1982.5	2178.1	2373.7
37.5°	2510.4	2531.7	2569.3	2629.5	2499.1	2255.8	2062.7	2008.8	2020.1	2224.5	2382.5
40°	2670.9	2692.2	2777.5	2837.7	2763.7	2506.6	2249.6	2131.7	2140.5	2293.5	2427.6
42.5°	2847.7	2889.1	2990.7	3096.0	3075.9	2825.1	2490.3	2312.3	2308.5	2465.3	2520.4
45°	3087.2	3142.4	3252.7	3374.4	3391.9	3190.0	2811.3	2581.9	2594.4	2689.7	2712.3
47.5°	3420.8	3418.2	3526.1	3661.5	3763.1	3568.7	3195.0	2944.3	2943.0	3044.6	2996.9
50°	3743.0	3744.3	3773.1	3929.9	4193.2	4094.1	3670.3	3425.8	3412.0	3462.1	3385.6
52.5°	3892.2	3874.7	3853.4	4042.7	4524.2	4756.2	4272.2	3971.2	3960.0	3929.9	3909.8
55°	3735.5	3741.8	3740.5	3937.4	4698.5	5454.6	5044.6	4571.9	4553.1	4459.0	4486.6
57.5°	3232.7	3212.6	3256.5	3563.7	4499.1	5931.1	6149.3	5329.3	5280.4	4968.1	4905.4
60°	2406.3	2412.6	2448.9	2811.3	4003.8	6031.5	7206.4	6218.3	6007.6	5326.7	5240.2
62.5°	1680.3	1667.7	1681.5	1884.7	2862.8	5630.2	7921.2	7299.2	7096.1	5734.3	5684.1
65°	1202.5	1186.2	1241.4	1365.5	1719.2	4304.8	8022.7	8738.7	8556.9	6385.1	6264.7
67.5°	865.2	862.7	926.7	1152.4	1221.3	2479.0	7270.4	10042.8	9932.5	7157.5	6618.3
69°	716.0	717.3	778.7	1032.0	1166.2	1692.8	6255.9	10267.3	10247.2	7556.3	6551.8
70°	624.5	629.5	701.0	960.5	1143.6	1391.9	5393.2	10046.6	10026.5	7634.0	6332.4
72.5°	385.0	388.7	482.8	769.9	1087.2	1136.1	3225.1	8219.6	8288.6	7277.9	5455.9
75°	184.3	185.6	253.3	556.8	1048.3	1077.1	1727.9	6065.3	6210.8	5876.0	4263.4
77.5°	97.8	97.8	121.6	295.9	848.9	1013.2	1025.7	4278.5	4398.8	3715.4	2423.9
80°	48.9	50.2	74.0	154.2	526.7	993.1	801.3	2551.8	2617.0	1516.0	754.9
82.5°	18.8	20.1	35.1	92.8	273.4	838.9	703.5	1255.2	1238.9	354.9	184.3
85°	2.5	2.5	12.5	55.2	116.6	369.9	580.6	524.1	506.6	77.7	89.0
87.5°	0.0	0.0	2.5	16.3	35.1	107.8	224.5	144.2	160.5	21.3	43.9
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°	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6	2343.6
2.5°	2380.0	2353.6	2313.5	2274.7	2233.3	2183.1	2127.9	2107.9	2072.8	2070.3	2090.3
5°	2377.5	2334.8	2264.6	2181.9	2064.0	1975.0	1878.4	1808.2	1754.3	1719.2	1727.9
7.5°	2390.0	2338.6	2217.0	2038.9	1887.2	1710.4	1561.2	1458.3	1364.3	1317.9	1312.9
10°	2370.0	2301.0	2122.9	1873.4	1650.2	1403.2	1185.0	1047.0	906.6	855.2	857.7
12.5°	2381.2	2284.7	2021.4	1702.9	1395.6	1074.6	813.8	625.7	494.1	451.4	446.4
15°	2388.8	2249.6	1923.5	1498.5	1113.5	732.3	471.5	354.9	313.5	306.0	304.7
17.5°	2359.9	2206.9	1785.6	1296.6	825.1	445.1	313.5	289.7	282.1	277.1	274.6
20°	2358.7	2181.9	1666.5	1089.7	550.5	303.5	270.9	262.1	250.8	247.0	247.0
22.5°	2337.3	2129.2	1523.5	862.7	351.1	260.8	243.3	229.5	216.9	211.9	210.7
25°	2331.1	2067.8	1389.4	648.3	267.1	233.2	215.7	195.6	180.6	173.0	169.3
27.5°	2313.5	2015.1	1253.9	456.4	233.2	208.2	185.6	164.3	146.7	135.4	134.2
30°	2250.8	1959.9	1103.5	316.0	211.9	184.3	159.3	134.2	116.6	109.1	106.6
32.5°	2224.5	1908.5	939.2	243.3	193.1	163.0	134.2	111.6	97.8	90.3	89.0
35°	2193.1	1833.3	780.0	211.9	175.6	141.7	112.9	94.0	82.8	76.5	76.5
37.5°	2196.9	1773.1	630.7	191.9	156.7	121.6	96.6	80.3	70.2	64.0	64.0
40°	2185.6	1725.4	490.3	174.3	139.2	104.1	81.5	67.7	58.9	52.7	51.4
42.5°	2237.0	1712.9	369.9	159.3	121.6	89.0	70.2	57.7	48.9	41.4	41.4
45°	2323.6	1732.9	288.4	145.5	104.1	76.5	60.2	47.6	38.9	33.9	32.6
47.5°	2554.3	1811.9	225.7	134.2	89.0	66.5	50.2	38.9	31.3	26.3	25.1
50°	2889.1	1988.8	191.9	117.9	75.2	56.4	41.4	30.1	25.1	20.1	18.8
52.5°	3365.6	2285.9	174.3	104.1	62.7	46.4	32.6	23.8	18.8	15.0	13.8
55°	3884.7	2657.1	158.0	87.8	52.7	37.6	26.3	18.8	13.8	10.0	8.8
57.5°	4289.7	2978.1	144.2	72.7	42.6	30.1	20.1	13.8	10.0	6.3	5.0
60°	4732.4	3203.8	126.6	57.7	35.1	22.6	15.0	10.0	7.5	3.8	3.8
62.5°	5188.8	3468.4	104.1	45.1	27.6	17.6	11.3	7.5	5.0	1.3	1.3
65°	5823.3	3675.3	80.3	35.1	21.3	12.5	8.8	6.3	2.5	0.0	0.0
67.5°	6002.6	3573.7	58.9	27.6	15.0	8.8	6.3	3.8	1.3	0.0	0.0
69°	5823.3	3218.9	51.4	23.8	12.5	7.5	5.0	2.5	1.3	0.0	0.0
70°	5496.0	2943.0	45.1	20.1	11.3	7.5	3.8	2.5	1.3	0.0	0.0
72.5°	4597.0	2257.1	35.1	15.0	8.8	6.3	3.8	2.5	0.0	0.0	0.0
75°	3371.9	1394.4	26.3	11.3	7.5	5.0	3.8	2.5	0.0	0.0	0.0
77.5°	1806.9	509.1	18.8	7.5	5.0	3.8	3.8	2.5	0.0	0.0	0.0
80°	495.3	150.5	13.8	5.0	3.8	2.5	2.5	1.3	0.0	0.0	0.0
82.5°	135.4	38.9	8.8	5.0	3.8	2.5	1.3	0.0	0.0	0.0	0.0
85°	72.7	15.0	5.0	3.8	2.5	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	37.6	5.0	3.8	2.5	2.5	1.3	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)