

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: P484747

Luminaire Tested: **IFLD-S-SA3A-735-U-SL4-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484747
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-SL4-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

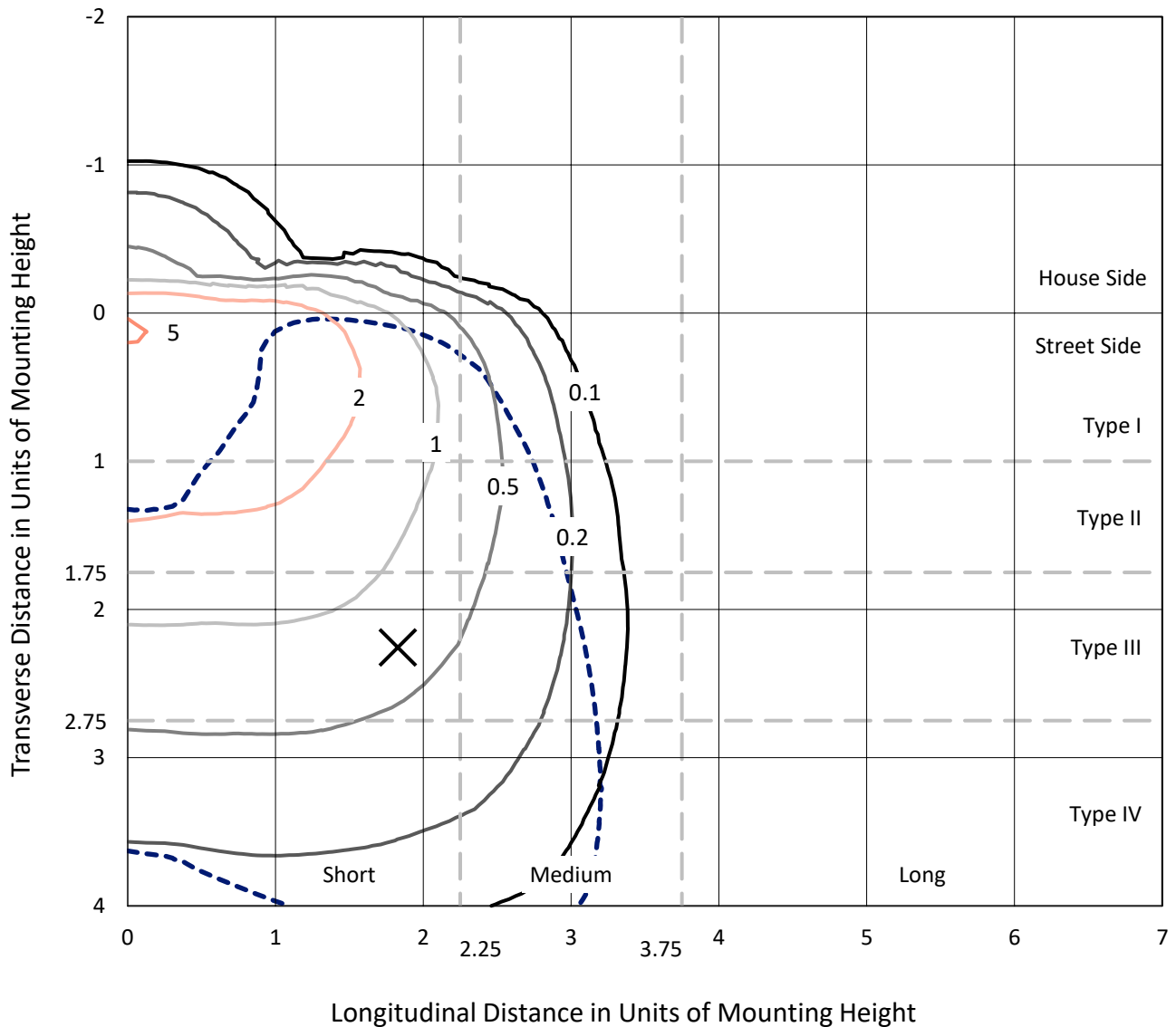
Lumens per Lamp: N/A
Luminaire Lumens: 11210.4 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 94.8
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

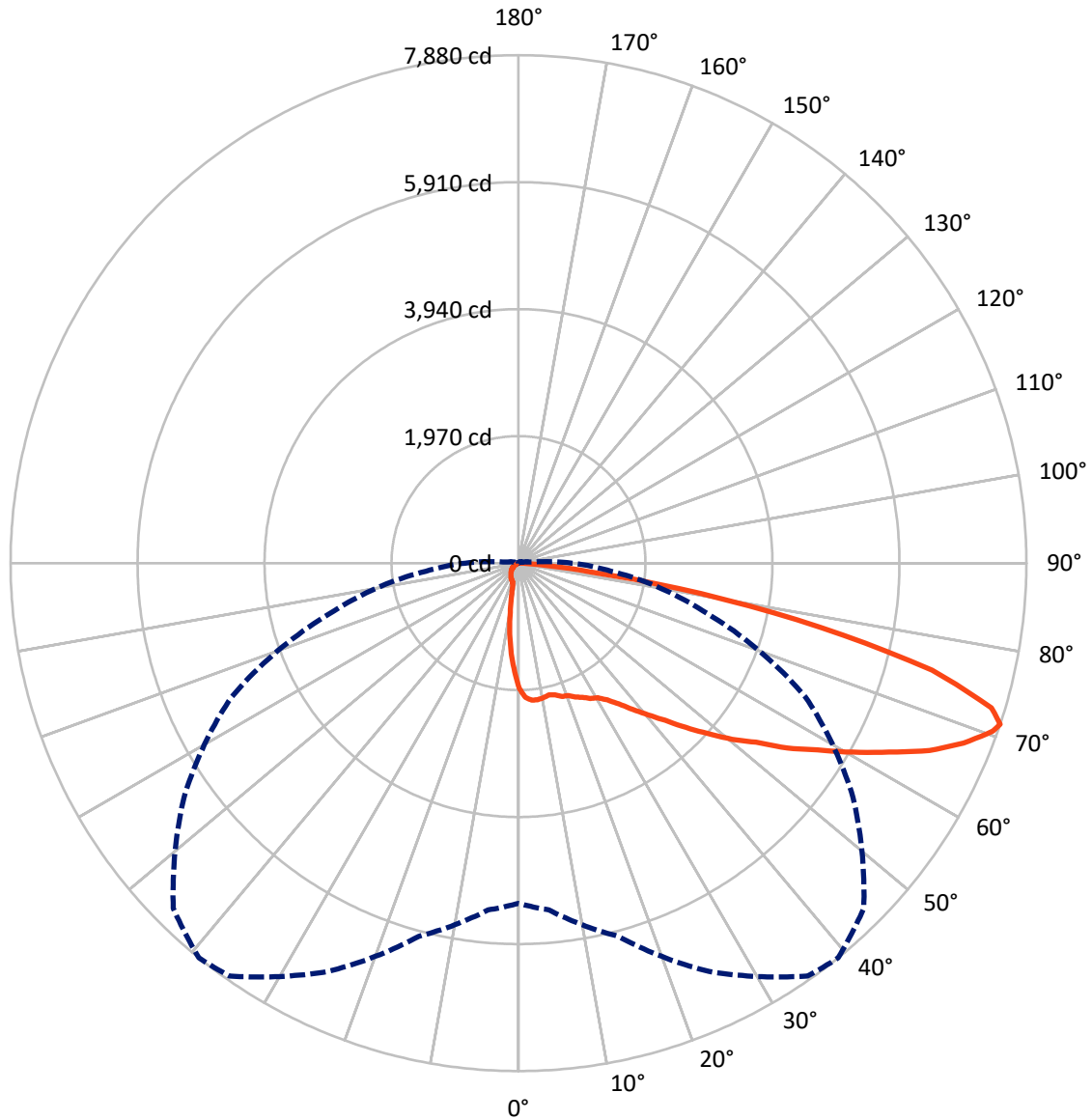
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.0	0.0	844.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	10366.5	0.0	10366.5
	% Fixture	92.5	0.0	92.5
Total	Lumens	11210.4	0.0	11210.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	1.5
10°-20°	401.5	3.6
20°-30°	644.6	5.8
30°-40°	986.7	8.8
40°-50°	1583.9	14.1
50°-60°	2326.5	20.8
60°-70°	2930.1	26.1
70°-80°	1955.5	17.4
80°-90°	218.5	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°	11210.4	100.0
0°-180°	11210.4	100.0

Coefficient of Utilization



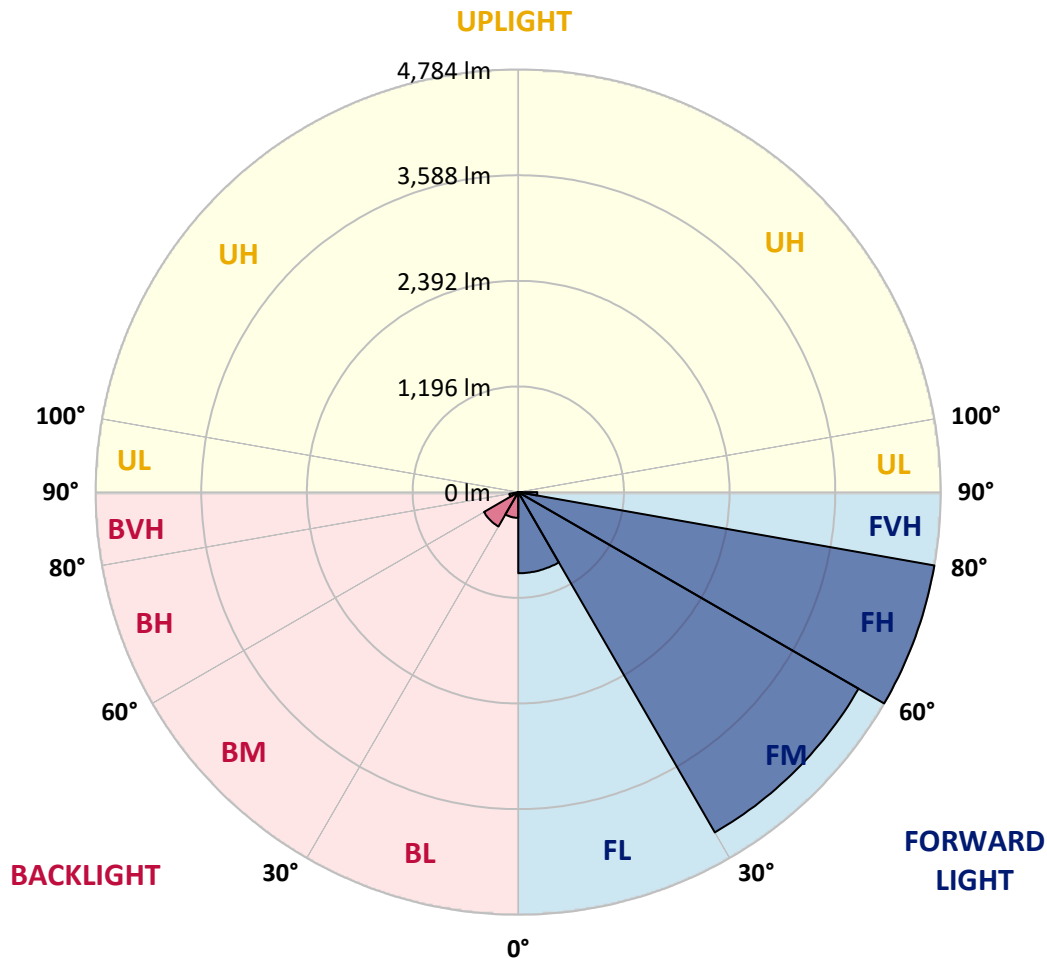
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.9	8.2			
FM (30°-60°)	4448.5	39.7			
FH (60°-80°)	4784.0	42.7			G2/5000
FVH (80°-90°)	216.1	1.9			G2/225
BL (0°-30°)	291.4	2.6	B1/500		
BM (30°-60°)	448.6	4.0	B1/1000		
BH (60°-80°)	101.6	0.9	B0/110		G0/110
BVH (80°-90°)	2.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2
2.5°	2102.7	2123.3	2102.7	2093.9	2085.1	2086.5	2063.0	2067.4	2039.5	2002.7	1973.3
5°	2168.9	2196.8	2174.8	2164.5	2163.0	2135.1	2123.3	2095.4	2061.5	2004.2	1968.9
7.5°	2163.0	2157.1	2167.4	2158.6	2139.5	2139.5	2126.2	2086.5	2052.7	1988.0	1927.7
10°	2118.9	2136.5	2127.7	2117.4	2121.8	2123.3	2098.3	2070.4	2060.1	1995.4	1896.8
12.5°	2114.5	2085.1	2117.4	2118.9	2099.8	2098.3	2095.4	2088.0	2055.6	1996.8	1904.2
15°	2099.8	2088.0	2120.3	2121.8	2126.2	2121.8	2126.2	2120.3	2088.0	2054.2	1936.5
17.5°	2111.5	2098.3	2143.9	2165.9	2155.6	2176.2	2168.9	2142.4	2114.5	2074.8	1967.4
20°	2114.5	2133.6	2183.6	2192.4	2224.7	2190.9	2189.5	2161.5	2143.9	2101.2	1986.5
22.5°	2168.9	2177.7	2239.5	2258.6	2260.0	2255.6	2218.9	2186.5	2179.2	2126.2	1991.0
25°	2251.2	2282.1	2310.0	2321.8	2326.2	2305.6	2267.4	2226.2	2208.6	2174.8	2036.5
27.5°	2396.8	2377.7	2402.7	2420.3	2370.3	2377.7	2329.1	2293.9	2268.9	2239.5	2089.5
30°	2526.2	2508.5	2510.0	2507.1	2464.4	2424.7	2411.5	2349.7	2318.9	2330.6	2171.8
32.5°	2642.3	2604.1	2636.5	2621.8	2542.4	2530.6	2520.3	2442.4	2448.3	2502.7	2295.3
35°	2749.7	2736.5	2762.9	2736.5	2683.5	2680.6	2670.3	2602.6	2635.0	2712.9	2507.1
37.5°	2848.2	2852.6	2885.0	2871.7	2876.1	2879.1	2873.2	2801.2	2893.8	3068.8	2754.1
40°	2939.4	2933.5	3012.9	3054.1	3062.9	3095.2	3095.2	3077.6	3220.2	3417.3	3096.7
42.5°	3036.4	3051.1	3154.1	3223.2	3307.0	3334.9	3373.1	3382.0	3602.5	3827.5	3446.7
45°	3195.2	3170.2	3301.1	3464.3	3537.8	3636.4	3695.2	3745.2	4011.3	4320.1	3796.6
47.5°	3396.7	3346.7	3461.4	3698.1	3868.7	3949.6	4055.4	4121.6	4381.9	4700.9	4127.5
50°	3620.2	3568.7	3624.6	3951.0	4149.5	4296.6	4431.8	4515.7	4830.3	5127.4	4368.6
52.5°	3873.1	3826.0	3834.9	4214.2	4506.8	4614.2	4792.1	4917.1	5230.3	5384.7	4453.9
55°	4142.2	4130.4	4102.5	4471.6	4820.0	5061.2	5168.5	5318.5	5640.5	5524.4	4546.5
57.5°	4412.7	4376.0	4415.7	4812.7	5322.9	5467.0	5615.5	5705.2	5868.5	5646.4	4511.3
60°	4667.1	4670.1	4725.9	5183.2	5750.8	5955.2	6089.0	6034.6	6102.2	5699.4	4430.4
62.5°	4881.8	4875.9	5017.1	5599.4	6316.9	6455.1	6555.1	6312.5	6211.1	5750.8	4289.2
65°	5074.4	5140.6	5362.6	6094.9	6849.2	7008.0	6947.7	6575.7	6316.9	5599.4	3892.2
67.5°	5220.0	5318.5	5703.8	6561.0	7337.4	7449.2	7365.3	6775.7	6191.9	5005.3	3170.2
70°	5305.3	5405.3	5947.9	6949.2	7727.1	7807.9	7610.9	6621.3	5462.6	3624.6	1977.7
71°	5278.8	5400.9	5994.9	6990.4	7819.7	7880.0	7574.1	6336.0	4912.7	3034.9	1442.5
72.5°	5039.1	5153.8	5799.3	6961.0	7707.9	7671.2	7287.4	5650.8	3867.2	1935.1	745.5
75°	3702.5	3826.0	4977.4	6021.4	6880.1	6627.2	5897.9	3965.7	2017.4	592.6	217.6
77.5°	1843.9	1864.5	3089.4	4371.6	5046.5	4795.0	3952.5	2211.5	754.3	175.0	108.8
80°	849.9	855.8	1158.7	2264.4	3051.1	2871.7	2214.5	1091.1	341.1	92.6	85.3
82.5°	579.3	588.2	698.5	938.1	1324.8	1117.5	897.0	698.5	195.6	55.9	83.8
85°	105.9	97.0	391.1	497.0	511.7	347.0	310.3	604.3	73.5	32.3	73.5
87.5°	0.0	1.5	54.4	202.9	182.3	80.9	105.9	147.0	7.4	10.3	13.2
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°	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2	1951.2
2.5°	1948.3	1932.1	1877.7	1817.4	1763.0	1720.4	1666.0	1641.0	1601.3	1579.2	1577.8
5°	1920.4	1876.3	1782.2	1680.7	1567.5	1473.4	1369.0	1310.1	1242.5	1221.9	1217.5
7.5°	1873.3	1810.1	1671.9	1529.2	1355.7	1189.6	1061.6	924.9	841.1	805.8	792.6
10°	1843.9	1767.4	1579.2	1366.0	1123.4	889.6	710.2	564.6	488.2	451.4	442.6
12.5°	1843.9	1761.6	1504.2	1210.2	888.1	608.8	439.7	355.8	330.8	322.0	322.0
15°	1839.5	1749.8	1432.2	1049.9	657.3	408.8	327.9	310.3	307.3	305.8	304.4
17.5°	1861.6	1729.2	1358.7	877.8	464.7	322.0	301.4	298.5	295.6	295.6	292.6
20°	1877.7	1717.5	1270.4	695.5	347.0	298.5	289.7	285.3	283.8	282.3	285.3
22.5°	1864.5	1699.8	1161.6	520.5	302.9	283.8	277.9	273.5	270.6	270.6	272.0
25°	1889.5	1683.6	1052.8	392.6	283.8	270.6	264.7	261.7	260.3	258.8	255.9
27.5°	1923.3	1691.0	923.4	316.1	267.6	257.3	251.4	248.5	247.0	244.1	247.0
30°	1964.5	1689.5	780.8	276.4	252.9	242.6	236.7	235.3	232.3	230.9	232.3
32.5°	2035.1	1727.7	633.8	255.9	236.7	227.9	222.0	220.6	219.1	217.6	216.2
35°	2186.5	1774.8	495.5	239.7	222.0	211.7	207.3	204.4	202.9	201.4	200.0
37.5°	2373.3	1879.2	377.9	225.0	207.3	197.0	192.6	191.2	185.3	183.8	182.3
40°	2607.1	1991.0	291.1	208.8	194.1	183.8	179.4	175.0	167.6	164.7	161.7
42.5°	2898.2	2099.8	239.7	194.1	179.4	172.0	164.7	157.3	151.5	145.6	142.6
45°	3189.3	2226.2	210.3	180.9	167.6	158.8	152.9	142.6	132.3	123.5	122.0
47.5°	3432.0	2271.8	192.6	166.2	155.9	148.5	139.7	126.5	111.8	102.9	101.5
50°	3612.8	2245.3	175.0	151.5	142.6	135.3	123.5	107.3	92.6	83.8	80.9
52.5°	3648.1	2129.2	158.8	139.7	129.4	120.6	107.3	89.7	73.5	64.7	63.2
55°	3623.1	1936.5	145.6	129.4	117.6	104.4	89.7	72.1	57.3	48.5	47.1
57.5°	3571.7	1708.6	130.9	116.2	102.9	89.7	73.5	58.8	42.6	33.8	33.8
60°	3396.7	1398.4	116.2	101.5	88.2	76.5	60.3	42.6	29.4	22.1	20.6
62.5°	3152.6	1074.9	101.5	86.8	76.5	63.2	47.1	30.9	17.6	11.8	11.8
65°	2707.0	752.9	85.3	72.1	63.2	51.5	35.3	19.1	10.3	4.4	4.4
67.5°	2057.1	466.1	70.6	60.3	54.4	41.2	25.0	11.8	4.4	1.5	0.0
70°	1180.7	242.6	55.9	48.5	42.6	30.9	17.6	5.9	2.9	0.0	0.0
71°	824.9	179.4	50.0	42.6	38.2	27.9	14.7	4.4	1.5	0.0	0.0
72.5°	413.2	119.1	42.6	35.3	30.9	22.1	11.8	4.4	1.5	0.0	0.0
75°	147.0	76.5	29.4	23.5	22.1	16.2	7.4	2.9	1.5	0.0	0.0
77.5°	101.5	61.8	20.6	14.7	14.7	10.3	4.4	1.5	1.5	0.0	0.0
80°	92.6	33.8	13.2	8.8	7.4	5.9	2.9	1.5	0.0	0.0	0.0
82.5°	92.6	25.0	7.4	5.9	4.4	2.9	1.5	0.0	0.0	0.0	0.0
85°	64.7	13.2	4.4	4.4	2.9	1.5	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	4.4	2.9	1.5	1.5	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)