

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: P478275

Luminaire Tested: **IFLD-S-SA3C-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478275
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

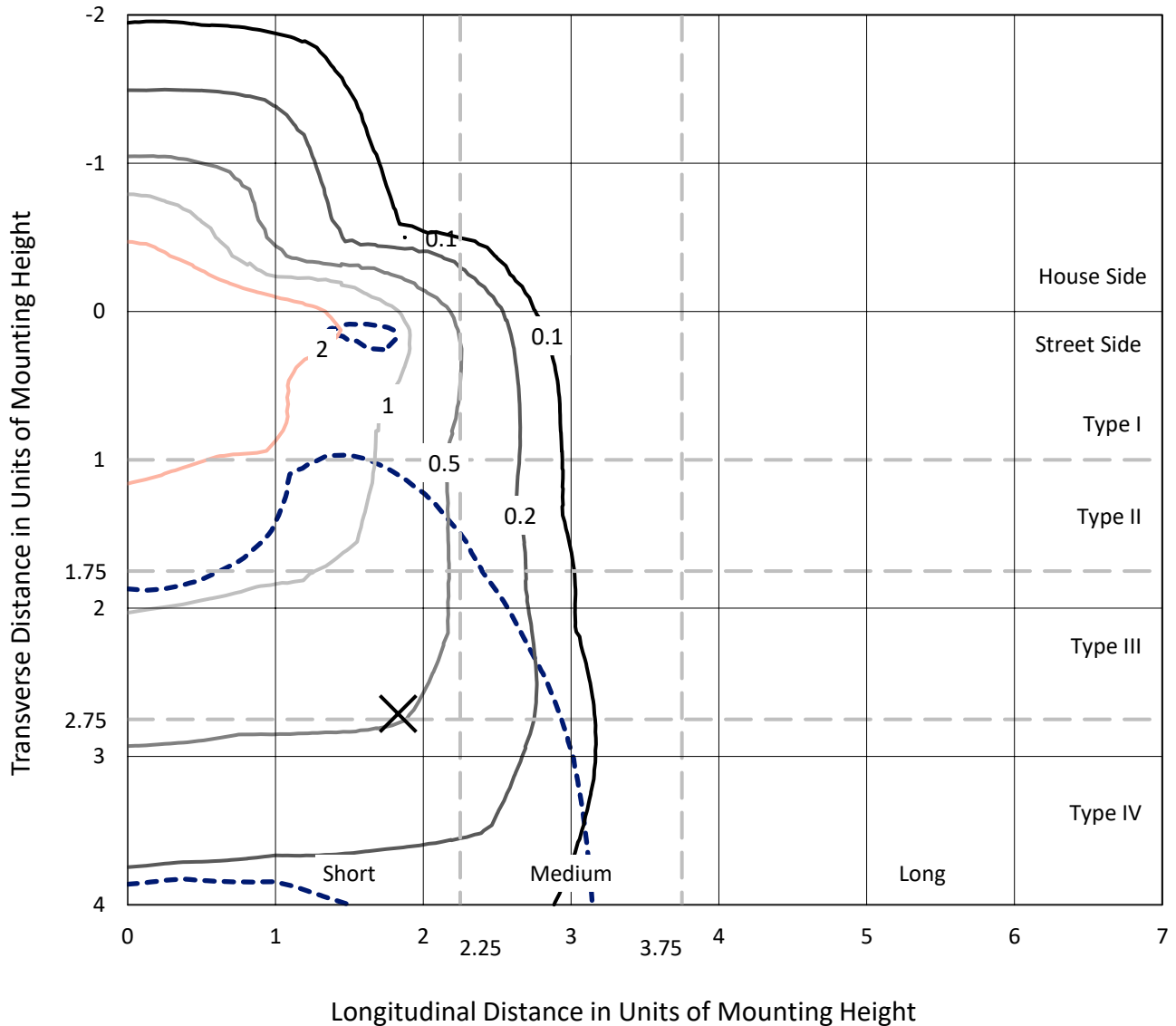
Lumens per Lamp: N/A
Luminaire Lumens: 15952.2 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 160.8
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

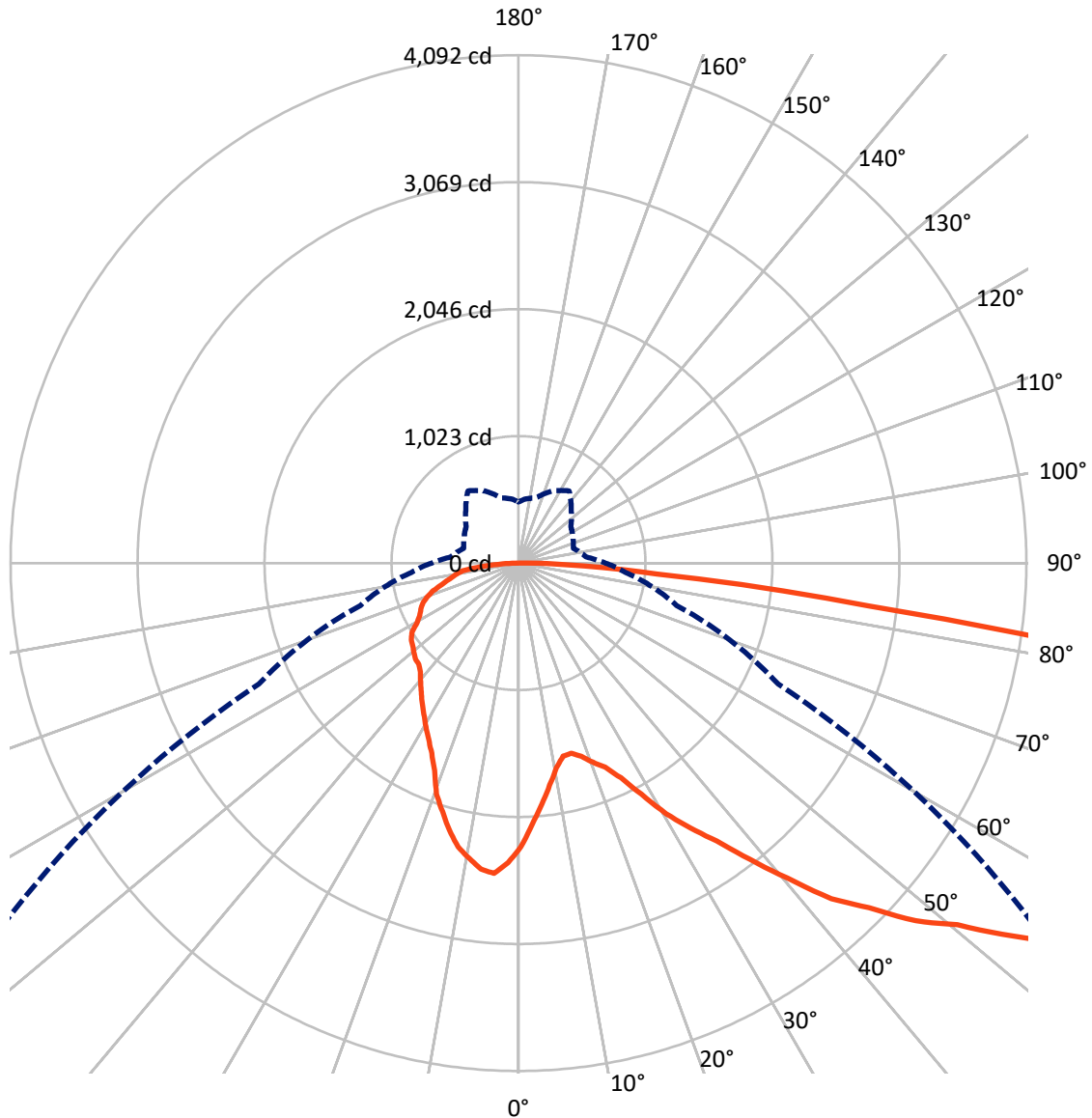
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3445.9	0.0	3445.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	12506.3	0.0	12506.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	15952.2	0.0	15952.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.1	1.3
10°-20°	590.7	3.7
20°-30°	972.2	6.1
30°-40°	1454.0	9.1
40°-50°	2155.5	13.5
50°-60°	3106.3	19.5
60°-70°	3964.0	24.8
70°-80°	3084.6	19.3
80°-90°	413.8	2.6
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°	15952.2	100.0
0°-180°	15952.2	100.0

Coefficient of Utilization



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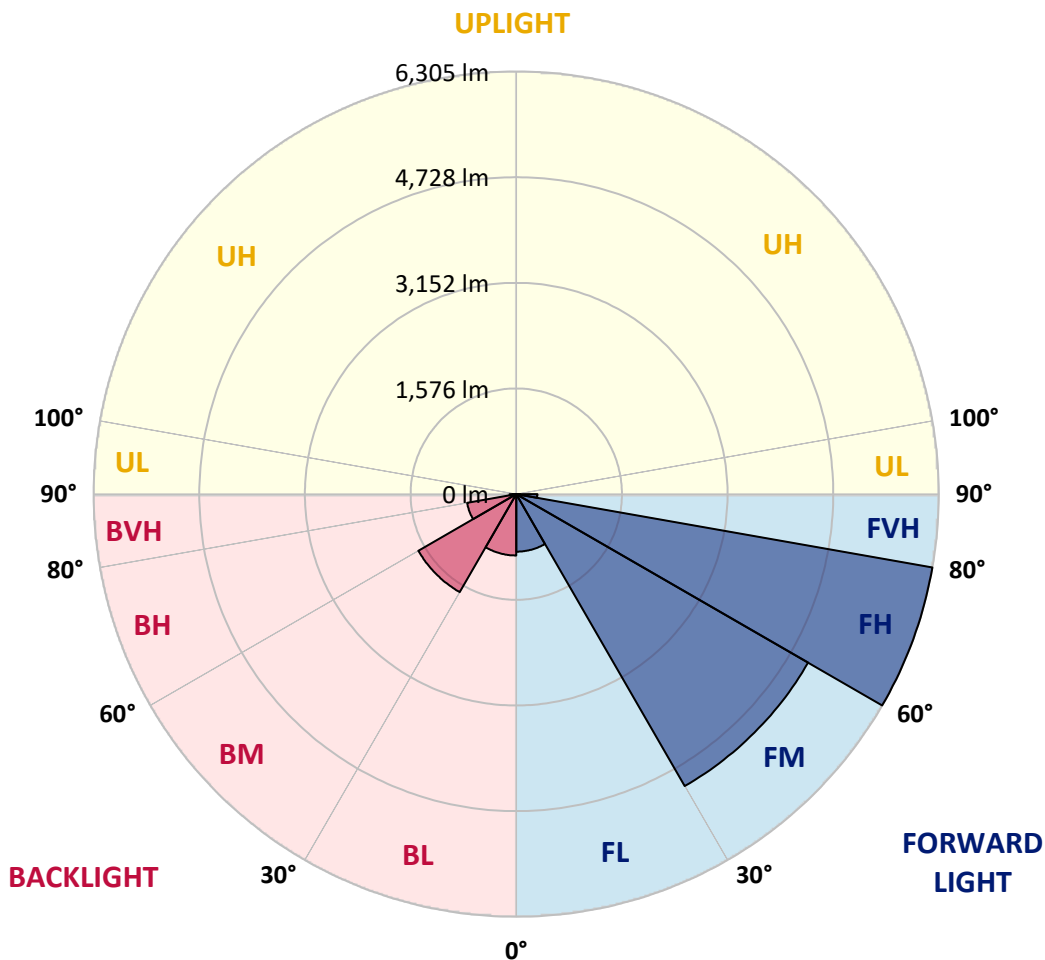
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.5	5.4			
FM (30°-60°)	5028.2	31.5			
FH (60°-80°)	6304.6	39.5			G3/7500
FVH (80°-90°)	315.0	2.0			G3/500
BL (0°-30°)	915.5	5.7	B2/1000		
BM (30°-60°)	1687.5	10.6	B2/2500		
BH (60°-80°)	744.0	4.7	B2/1000		G2/1000
BVH (80°-90°)	98.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0
2.5°	2049.2	2055.9	2077.9	2082.9	2106.5	2093.0	2121.7	2172.3	2201.0	2243.2	2293.7
5°	1887.3	1858.6	1872.1	1924.4	1951.4	1958.1	1988.5	2074.5	2128.5	2190.9	2285.3
7.5°	1696.7	1691.6	1718.6	1752.4	1806.3	1811.4	1878.8	1954.7	2066.1	2204.4	2315.7
10°	1566.8	1588.8	1603.9	1639.4	1676.5	1676.5	1762.5	1894.0	2020.5	2153.8	2322.4
12.5°	1560.1	1546.6	1550.0	1568.5	1595.5	1629.2	1710.2	1828.3	1988.5	2143.6	2351.1
15°	1582.0	1587.1	1556.7	1580.3	1590.4	1602.3	1691.6	1824.9	1968.2	2179.1	2400.0
17.5°	1698.4	1669.7	1622.5	1600.6	1636.0	1636.0	1696.7	1801.3	1971.6	2197.6	2470.8
20°	1789.5	1789.5	1711.9	1688.3	1713.6	1708.5	1750.7	1828.3	1988.5	2234.7	2550.1
22.5°	1942.9	1964.9	1836.7	1787.8	1786.1	1799.6	1836.7	1902.5	2035.7	2287.0	2626.0
25°	2163.9	2168.9	2020.5	1969.9	1916.0	1937.9	1944.6	2010.4	2077.9	2347.7	2712.0
27.5°	2410.1	2406.7	2270.1	2143.6	2108.2	2113.3	2076.2	2120.0	2140.3	2366.3	2835.1
30°	2683.3	2653.0	2550.1	2371.3	2342.7	2310.6	2229.7	2228.0	2270.1	2470.8	3005.5
32.5°	2862.1	2823.3	2752.5	2624.3	2545.0	2548.4	2420.2	2418.6	2381.5	2585.5	3153.9
35°	3037.5	2978.5	2959.9	2828.4	2749.1	2757.6	2654.7	2641.2	2573.7	2759.2	3398.5
37.5°	3248.4	3196.1	3224.7	3125.2	3027.4	2986.9	2939.7	2922.8	2835.1	3003.8	3732.4
40°	3481.1	3464.2	3445.7	3396.8	3337.7	3341.1	3290.5	3273.7	3143.8	3298.9	4052.9
42.5°	3794.8	3730.7	3634.6	3666.6	3697.0	3729.0	3712.2	3668.3	3533.4	3599.2	4410.4
45°	4086.6	4002.3	3825.2	3835.3	3960.1	3985.4	4189.5	4184.4	3912.9	3980.3	4816.9
47.5°	4283.9	4245.1	4138.9	4127.1	4305.8	4304.2	4671.8	4671.8	4312.6	4359.8	5253.7
50°	4577.4	4476.2	4430.6	4489.7	4580.8	4643.2	5164.3	5196.4	4705.6	4756.2	5825.4
52.5°	4921.4	4794.9	4680.3	4832.1	4994.0	5034.4	5651.7	5638.2	5007.5	5216.6	6495.0
55°	5206.5	5142.4	5063.1	5150.8	5415.6	5466.2	6140.8	6016.0	5309.4	5597.8	6817.2
57.5°	5538.7	5577.5	5594.4	5572.5	5887.8	5967.1	6699.1	6341.5	5569.1	5854.1	7006.1
60°	6039.6	6063.3	6085.2	6137.5	6471.4	6582.7	7141.0	6749.7	5732.7	6002.5	7021.2
62.5°	6802.0	6710.9	6759.8	6940.3	7208.4	7334.9	7792.0	7036.4	5857.5	6091.9	6525.4
65°	7673.9	7550.8	7500.2	7733.0	8427.8	8326.6	8604.9	7250.6	5677.0	5758.0	5533.7
67.5°	8557.7	8571.2	8441.3	8908.5	9760.2	9760.2	9360.5	7353.5	5187.9	4666.8	3880.8
70°	9259.3	9301.5	9372.3	10278.0	11627.3	11831.4	10296.6	6931.8	4191.2	3106.7	2121.7
72.5°	9249.2	9122.7	9485.3	11153.4	13324.0	13153.6	10492.2	5481.4	2615.9	1521.3	973.2
73°	9041.8	8935.5	9331.8	11144.9	13393.1	13232.9	10348.9	5053.0	2307.2	1318.9	865.2
75°	7383.8	7191.6	7866.2	10094.2	12391.3	12514.4	8792.1	3295.6	1264.9	812.9	608.9
77.5°	3366.4	3450.7	4329.4	6771.6	9549.4	9694.5	5779.9	1425.2	693.2	570.1	448.6
80°	1081.1	1135.1	1684.9	3366.4	5985.7	6247.1	2671.5	647.6	494.2	436.8	335.6
82.5°	413.2	411.5	706.7	1399.9	2836.8	3003.8	976.5	394.7	367.7	322.1	237.8
85°	145.0	151.8	266.5	553.2	1116.5	1168.8	339.0	219.3	254.7	215.9	136.6
87.5°	50.6	52.3	94.4	200.7	384.5	406.5	94.4	87.7	126.5	124.8	69.1
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°	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0	2287.0
2.5°	2310.6	2325.8	2330.9	2391.6	2391.6	2391.6	2415.2	2415.2	2408.4	2391.6	2432.0
5°	2320.7	2347.7	2400.0	2452.3	2465.8	2477.6	2509.6	2482.6	2492.8	2475.9	2491.1
7.5°	2349.4	2386.5	2484.3	2516.4	2494.5	2519.7	2486.0	2467.5	2448.9	2455.7	2432.0
10°	2398.3	2445.5	2491.1	2550.1	2507.9	2482.6	2413.5	2396.6	2337.6	2317.4	2335.9
12.5°	2459.0	2516.4	2594.0	2572.0	2491.1	2418.6	2344.3	2273.5	2238.1	2187.5	2201.0
15°	2519.7	2585.5	2597.3	2560.2	2459.0	2368.0	2233.0	2133.5	2098.1	2052.6	2076.2
17.5°	2585.5	2647.9	2627.7	2531.6	2394.9	2256.6	2103.2	2005.3	1931.1	1902.5	1902.5
20°	2683.3	2713.7	2681.7	2484.3	2317.4	2135.2	1986.8	1875.5	1801.3	1789.5	1770.9
22.5°	2759.2	2808.2	2664.8	2415.2	2204.4	1976.7	1806.3	1764.2	1742.2	1723.7	1700.1
25°	2857.1	2855.4	2634.4	2351.1	2010.4	1787.8	1684.9	1681.5	1671.4	1664.7	1696.7
27.5°	2949.8	2911.0	2599.0	2192.6	1809.7	1644.4	1588.8	1625.9	1641.0	1630.9	1644.4
30°	3096.6	3032.5	2548.4	2023.9	1632.6	1499.4	1509.5	1560.1	1585.4	1600.6	1580.3
32.5°	3251.7	3153.9	2443.9	1848.5	1475.8	1408.3	1431.9	1484.2	1514.5	1531.4	1550.0
35°	3476.0	3248.4	2337.6	1619.1	1362.8	1352.6	1366.1	1394.8	1438.7	1450.5	1455.5
37.5°	3752.6	3391.7	2194.2	1435.3	1275.1	1286.9	1300.4	1310.5	1312.2	1334.1	1325.7
40°	4029.2	3513.1	1985.1	1259.9	1184.0	1248.1	1241.3	1222.8	1207.6	1187.4	1182.3
42.5°	4272.1	3619.4	1752.4	1111.5	1103.0	1207.6	1185.7	1138.4	1103.0	1087.8	1062.5
45°	4545.3	3769.5	1517.9	1018.7	1040.6	1158.7	1151.9	1079.4	1033.9	979.9	973.2
47.5°	4899.5	3926.4	1293.6	922.6	981.6	1140.1	1143.5	1050.7	985.0	912.4	902.3
50°	5353.2	4152.4	1123.3	882.1	946.2	1113.1	1118.2	1011.9	925.9	851.7	845.0
52.5°	5788.3	4383.4	981.6	819.7	922.6	1081.1	1092.9	976.5	877.0	784.3	789.3
55°	6007.6	4299.1	860.2	774.1	868.6	1028.8	1072.7	951.2	802.8	738.7	737.0
57.5°	6056.5	4091.6	764.0	726.9	823.1	973.2	1038.9	875.3	769.1	715.1	708.4
60°	5896.3	3729.0	688.1	676.3	765.7	915.8	961.4	834.9	735.3	691.5	681.4
62.5°	5501.6	3352.9	635.8	652.7	716.8	853.4	912.4	806.2	703.3	672.9	651.0
65°	4511.6	2757.6	593.7	607.2	666.2	792.7	882.1	774.1	674.6	646.0	644.3
67.5°	3125.2	1900.8	559.9	585.2	625.7	748.8	851.7	738.7	637.5	627.4	613.9
70°	1600.6	1013.6	516.1	536.3	581.9	693.2	797.8	701.6	598.7	597.0	580.2
72.5°	811.2	593.7	465.5	495.9	527.9	620.7	730.3	652.7	549.8	531.3	504.3
73°	701.6	549.8	457.1	484.0	514.4	600.4	710.1	640.9	543.1	516.1	490.8
75°	511.0	433.5	409.8	436.8	460.4	541.4	642.6	586.9	499.2	470.6	446.9
77.5°	382.9	333.9	340.7	371.0	391.3	467.2	571.8	531.3	452.0	413.2	403.1
80°	281.7	254.7	281.7	310.3	325.5	411.5	521.2	460.4	381.2	337.3	328.9
82.5°	200.7	185.5	217.6	236.1	242.9	340.7	468.9	367.7	288.4	231.1	212.5
85°	114.7	113.0	146.7	145.0	150.1	199.0	308.6	244.6	185.5	141.7	138.3
87.5°	50.6	55.7	74.2	59.0	62.4	94.4	131.6	91.1	75.9	42.2	32.0
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)