

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: P478076

Luminaire Tested: **IFLD-S-SA2D-730-U-T4FT**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478076  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-730-U-T4FT  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

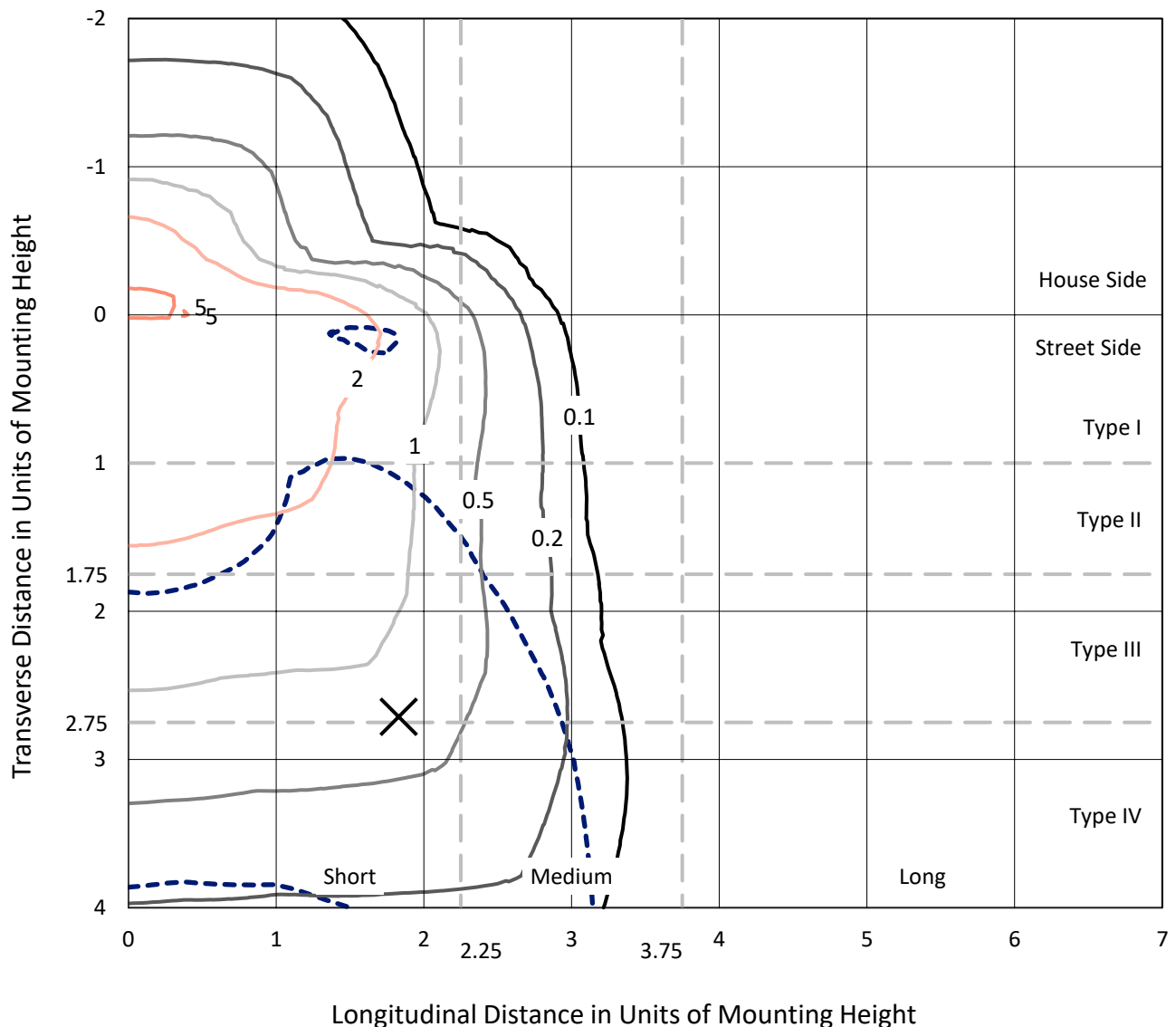
Lumens per Lamp: N/A  
Luminaire Lumens: 14590.1 lumens  
Efficiency: N/A  
Efficacy: 117.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 123.9  
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

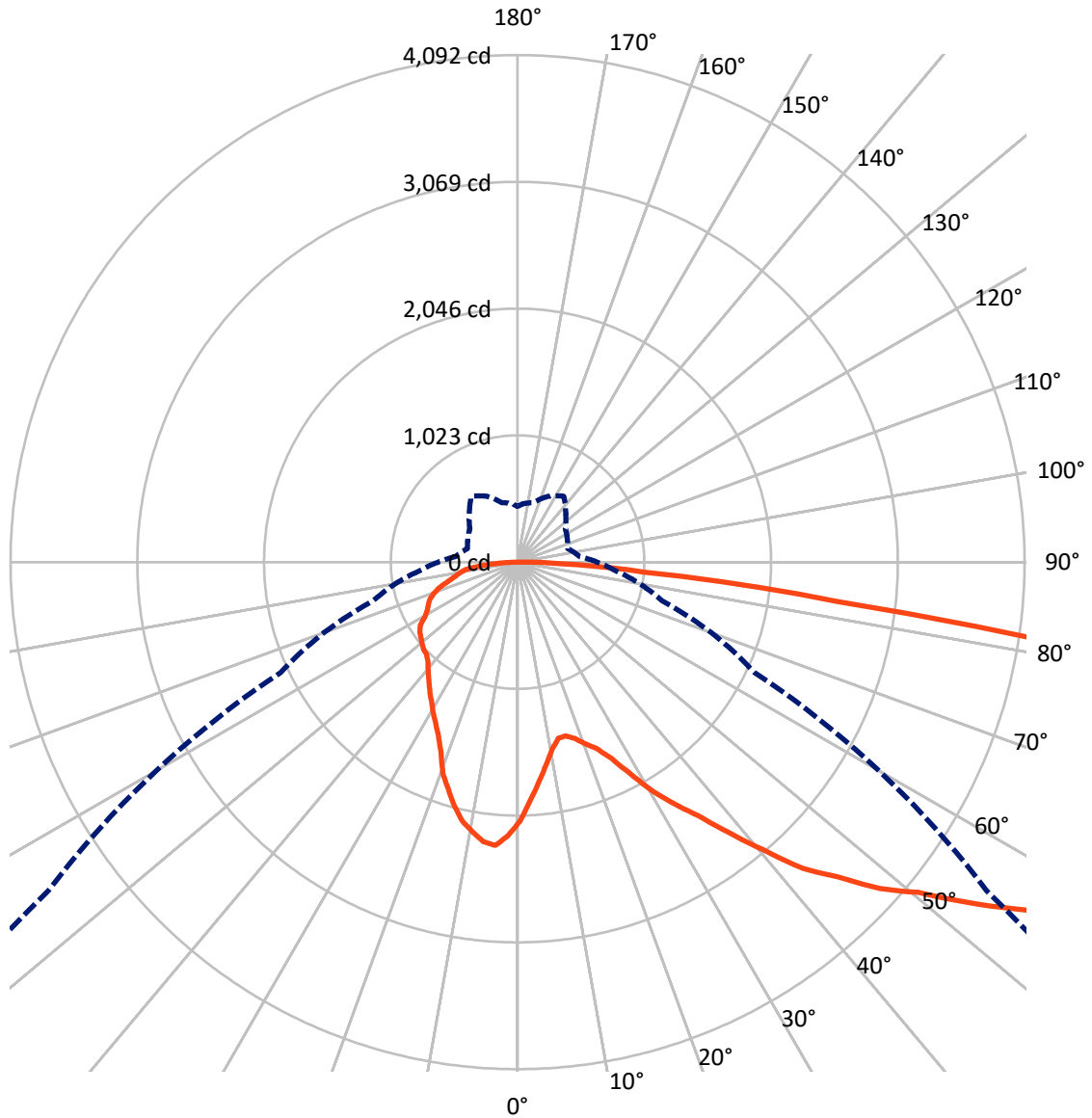
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 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
<b>House Side</b>	Lumens	3151.6	0.0	3151.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	11438.5	0.0	11438.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	14590.1	0.0	14590.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.1	1.3
10°-20°	540.3	3.7
20°-30°	889.2	6.1
30°-40°	1329.8	9.1
40°-50°	1971.4	13.5
50°-60°	2841.0	19.5
60°-70°	3625.5	24.8
70°-80°	2821.3	19.3
80°-90°	378.5	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°	14590.1	100.0
0°-180°	14590.1	100.0

**Coefficient of Utilization**



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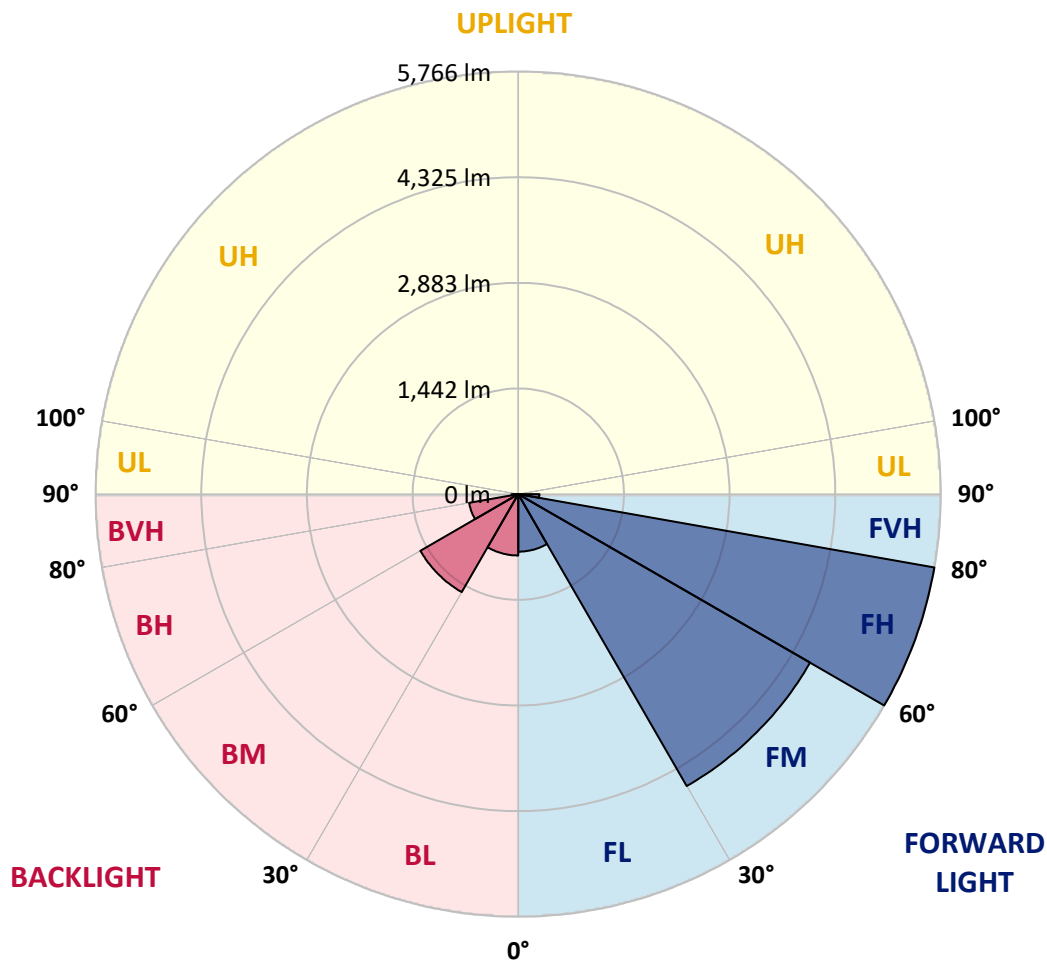
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	785.2	5.4			
FM (30°-60°)	4598.9	31.5			
FH (60°-80°)	5766.3	39.5			G3/7500
FVH (80°-90°)	288.1	2.0			G3/500
BL (0°-30°)	837.4	5.7	B2/1000		
BM (30°-60°)	1543.4	10.6	B2/2500		
BH (60°-80°)	680.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	90.4	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°	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7
2.5°	1874.2	1880.4	1900.4	1905.1	1926.7	1914.3	1940.6	1986.8	2013.1	2051.6	2097.9
5°	1726.1	1699.9	1712.3	1760.1	1784.8	1790.9	1818.7	1897.4	1946.7	2003.8	2090.2
7.5°	1551.8	1547.2	1571.9	1602.7	1652.1	1656.7	1718.4	1787.8	1889.6	2016.1	2117.9
10°	1433.0	1453.1	1467.0	1499.4	1533.3	1533.3	1612.0	1732.3	1848.0	1969.9	2124.1
12.5°	1426.9	1414.5	1417.6	1434.6	1459.3	1490.1	1564.2	1672.1	1818.7	1960.6	2150.3
15°	1446.9	1451.6	1423.8	1445.4	1454.6	1465.4	1547.2	1669.1	1800.2	1993.0	2195.1
17.5°	1553.4	1527.1	1484.0	1463.9	1496.3	1496.3	1551.8	1647.5	1803.3	2010.0	2259.9
20°	1636.7	1636.7	1565.7	1544.1	1567.3	1562.6	1601.2	1672.1	1818.7	2043.9	2332.4
22.5°	1777.0	1797.1	1679.9	1635.1	1633.6	1645.9	1679.9	1740.0	1861.9	2091.7	2401.8
25°	1979.1	1983.7	1848.0	1801.7	1752.4	1772.4	1778.6	1838.7	1900.4	2147.3	2480.5
27.5°	2204.3	2201.2	2076.3	1960.6	1928.2	1932.8	1898.9	1939.0	1957.5	2164.2	2593.1
30°	2454.2	2426.5	2332.4	2168.9	2142.6	2113.3	2039.3	2037.7	2076.3	2259.9	2748.9
32.5°	2617.7	2582.3	2517.5	2400.2	2327.7	2330.8	2213.6	2212.0	2178.1	2364.8	2884.6
35°	2778.2	2724.2	2707.2	2586.9	2514.4	2522.1	2428.0	2415.7	2354.0	2523.6	3108.3
37.5°	2971.0	2923.2	2949.4	2858.4	2768.9	2731.9	2688.7	2673.3	2593.1	2747.3	3413.7
40°	3183.9	3168.4	3151.5	3106.7	3052.7	3055.8	3009.6	2994.1	2875.4	3017.3	3706.8
42.5°	3470.8	3412.2	3324.2	3353.5	3381.3	3410.6	3395.2	3355.1	3231.7	3291.8	4033.8
45°	3737.6	3660.5	3498.6	3507.8	3622.0	3645.1	3831.7	3827.1	3578.8	3640.5	4405.6
47.5°	3918.1	3882.7	3785.5	3774.7	3938.2	3936.6	4272.9	4272.9	3944.4	3987.5	4805.1
50°	4186.5	4094.0	4052.3	4106.3	4189.6	4246.7	4723.4	4752.7	4303.8	4350.0	5328.0
52.5°	4501.2	4385.5	4280.6	4419.5	4567.6	4604.6	5169.2	5156.8	4579.9	4771.2	5940.4
55°	4761.9	4703.3	4630.8	4711.0	4953.2	4999.5	5616.5	5502.3	4856.0	5119.8	6235.1
57.5°	5065.8	5101.3	5116.7	5096.7	5385.1	5457.6	6127.1	5800.1	5093.6	5354.3	6407.8
60°	5523.9	5545.5	5565.6	5613.4	5918.8	6020.7	6531.2	6173.4	5243.2	5490.0	6421.7
62.5°	6221.2	6137.9	6182.6	6347.7	6592.9	6708.6	7126.7	6435.6	5357.3	5571.8	5968.2
65°	7018.7	6906.1	6859.8	7072.7	7708.2	7615.7	7870.2	6631.5	5192.3	5266.3	5061.2
67.5°	7827.0	7839.3	7720.6	8147.9	8926.9	8926.9	8561.3	6725.6	4744.9	4268.3	3549.5
70°	8468.7	8507.3	8572.1	9400.4	10634.5	10821.1	9417.4	6340.0	3833.3	2841.4	1940.6
72.5°	8459.5	8343.8	8675.4	10201.0	12186.3	12030.5	9596.3	5013.4	2392.5	1391.4	890.1
73°	8269.7	8172.5	8535.0	10193.3	12249.6	12103.0	9465.2	4621.5	2110.2	1206.3	791.3
75°	6753.4	6577.5	7194.5	9232.3	11333.3	11445.9	8041.4	3014.2	1156.9	743.5	556.9
77.5°	3079.0	3156.1	3959.8	6193.4	8734.0	8866.7	5286.4	1303.5	634.0	521.4	410.3
80°	988.8	1038.2	1541.0	3079.0	5474.6	5713.7	2443.4	592.3	452.0	399.5	307.0
82.5°	377.9	376.4	646.3	1280.3	2594.6	2747.3	893.1	361.0	336.3	294.6	217.5
85°	132.7	138.8	243.7	506.0	1021.2	1069.0	310.1	200.5	232.9	197.4	124.9
87.5°	46.3	47.8	86.4	183.6	351.7	371.8	86.4	80.2	115.7	114.2	63.2
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°	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7	2091.7
2.5°	2113.3	2127.2	2131.8	2187.4	2187.4	2187.4	2209.0	2209.0	2202.8	2187.4	2224.4
5°	2122.6	2147.3	2195.1	2242.9	2255.2	2266.0	2295.3	2270.7	2279.9	2264.5	2278.4
7.5°	2148.8	2182.7	2272.2	2301.5	2281.5	2304.6	2273.7	2256.8	2239.8	2246.0	2224.4
10°	2193.5	2236.7	2278.4	2332.4	2293.8	2270.7	2207.4	2192.0	2138.0	2119.5	2136.5
12.5°	2249.1	2301.5	2372.5	2352.4	2278.4	2212.0	2144.2	2079.4	2047.0	2000.7	2013.1
15°	2304.6	2364.8	2375.6	2341.6	2249.1	2165.8	2042.4	1951.4	1919.0	1877.3	1898.9
17.5°	2364.8	2421.8	2403.3	2315.4	2190.5	2064.0	1923.6	1834.1	1766.2	1740.0	1740.0
20°	2454.2	2482.0	2452.7	2272.2	2119.5	1952.9	1817.1	1715.3	1647.5	1636.7	1619.7
22.5°	2523.6	2568.4	2437.3	2209.0	2016.1	1807.9	1652.1	1613.5	1593.5	1576.5	1554.9
25°	2613.1	2611.6	2409.5	2150.3	1838.7	1635.1	1541.0	1537.9	1528.7	1522.5	1551.8
27.5°	2698.0	2662.5	2377.1	2005.3	1655.2	1504.0	1453.1	1487.0	1500.9	1491.7	1504.0
30°	2832.2	2773.5	2330.8	1851.1	1493.2	1371.3	1380.6	1426.9	1450.0	1463.9	1445.4
32.5°	2974.1	2884.6	2235.2	1690.7	1349.7	1288.0	1309.6	1357.5	1385.2	1400.7	1417.6
35°	3179.2	2971.0	2138.0	1480.9	1246.4	1237.1	1249.5	1275.7	1315.8	1326.6	1331.2
37.5°	3432.2	3102.1	2006.9	1312.7	1166.2	1177.0	1189.3	1198.6	1200.1	1220.2	1212.5
40°	3685.2	3213.2	1815.6	1152.3	1082.9	1141.5	1135.3	1118.4	1104.5	1086.0	1081.3
42.5°	3907.3	3310.4	1602.7	1016.6	1008.8	1104.5	1084.4	1041.2	1008.8	995.0	971.8
45°	4157.2	3447.6	1388.3	931.7	951.8	1059.7	1053.6	987.2	945.6	896.2	890.1
47.5°	4481.2	3591.1	1183.2	843.8	897.8	1042.8	1045.9	961.0	900.9	834.5	825.3
50°	4896.1	3797.8	1027.4	806.8	865.4	1018.1	1022.7	925.5	846.9	779.0	772.8
52.5°	5294.1	4009.1	897.8	749.7	843.8	988.8	999.6	893.1	802.1	717.3	721.9
55°	5494.6	3932.0	786.7	708.0	794.4	941.0	981.1	870.0	734.3	675.6	674.1
57.5°	5539.4	3742.3	698.8	664.8	752.8	890.1	950.2	800.6	703.4	654.0	647.9
60°	5392.8	3410.6	629.4	618.6	700.3	837.6	879.3	763.6	672.6	632.5	623.2
62.5°	5031.9	3066.6	581.5	597.0	655.6	780.5	834.5	737.3	643.3	615.5	595.4
65°	4126.4	2522.1	543.0	555.3	609.3	725.0	806.8	708.0	617.0	590.8	589.3
67.5°	2858.4	1738.5	512.1	535.3	572.3	684.9	779.0	675.6	583.1	573.8	561.5
70°	1463.9	927.1	472.0	490.5	532.2	634.0	729.6	641.7	547.6	546.1	530.6
72.5°	742.0	543.0	425.7	453.5	482.8	567.7	667.9	597.0	502.9	485.9	461.2
73°	641.7	502.9	418.0	442.7	470.5	549.2	649.4	586.2	496.7	472.0	448.9
75°	467.4	396.4	374.8	399.5	421.1	495.2	587.7	536.8	456.6	430.4	408.8
77.5°	350.2	305.4	311.6	339.4	357.9	427.3	522.9	485.9	413.4	377.9	368.7
80°	257.6	232.9	257.6	283.8	297.7	376.4	476.7	421.1	348.6	308.5	300.8
82.5°	183.6	169.7	199.0	216.0	222.1	311.6	428.8	336.3	263.8	211.3	194.4
85°	104.9	103.4	134.2	132.7	137.3	182.0	282.3	223.7	169.7	129.6	126.5
87.5°	46.3	50.9	67.9	54.0	57.1	86.4	120.3	83.3	69.4	38.6	29.3
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)