

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: P483223

Luminaire Tested: **IFLD-S-SA2C-740-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483223  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2C-740-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

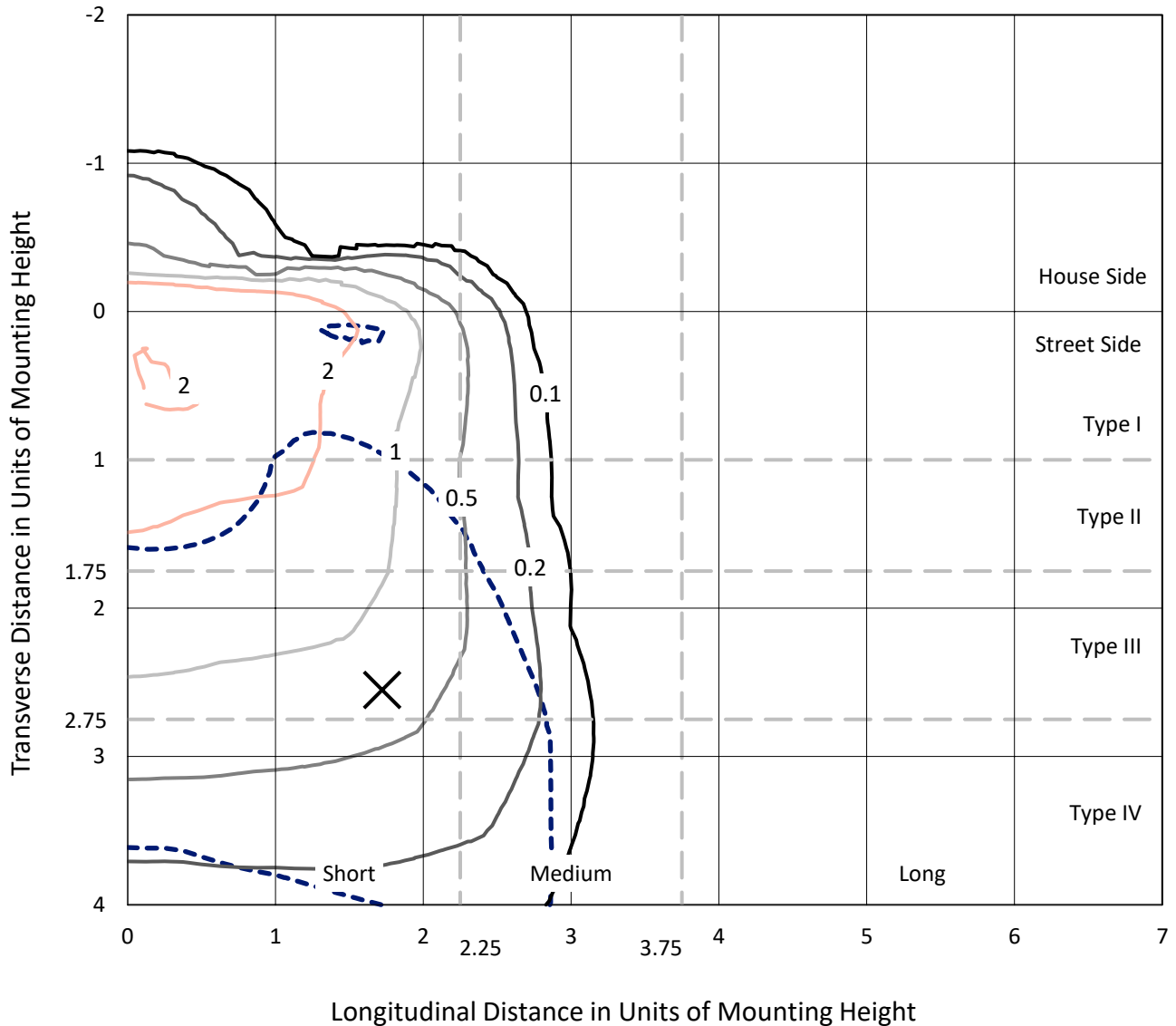
Lumens per Lamp: N/A  
Luminaire Lumens: 10277.5 lumens  
Efficiency: N/A  
Efficacy: 95.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

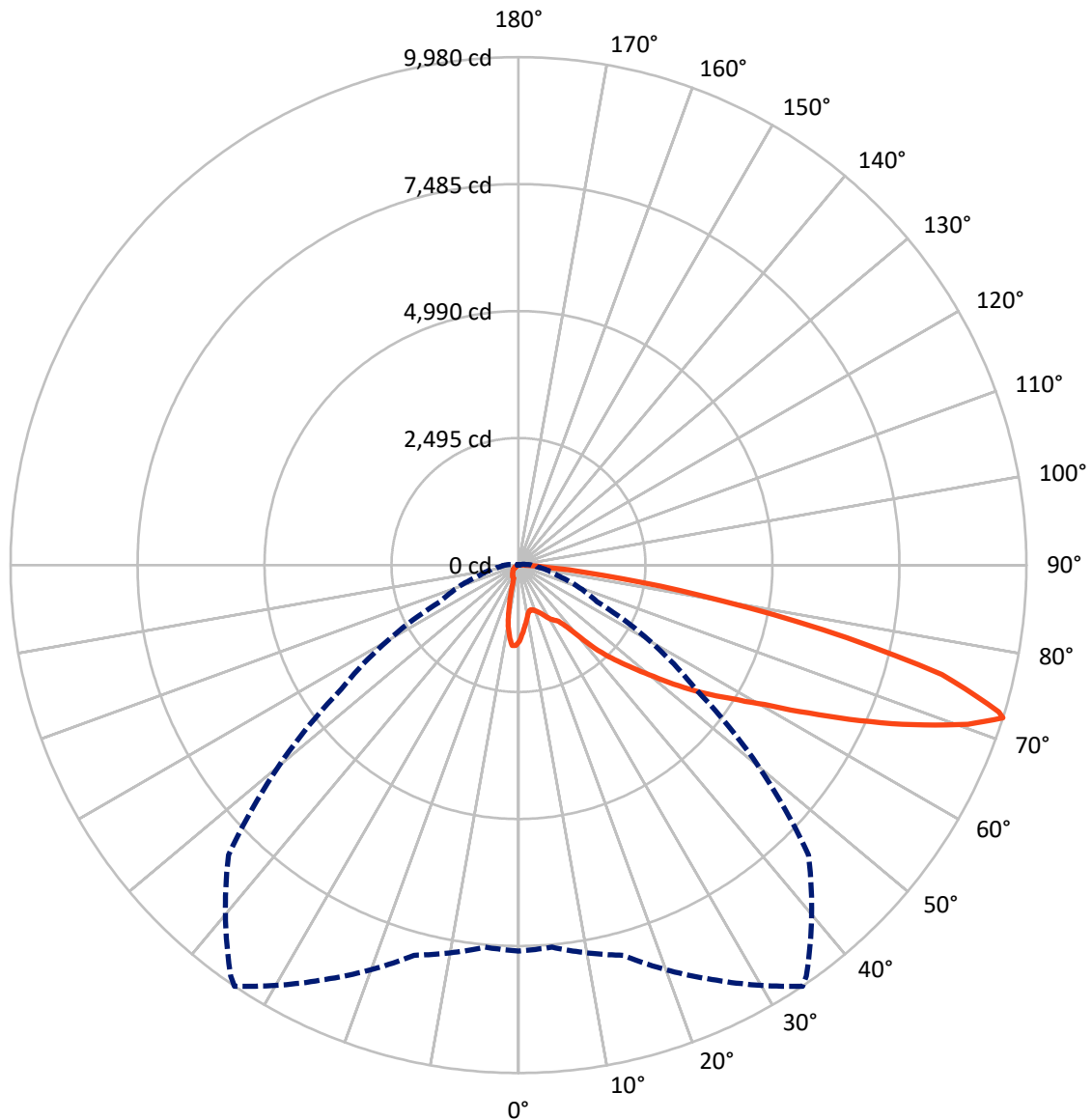
× Max cd  
 - - - 1/2 Max cd



Based on 20 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 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1052.2	0.0	1052.2
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	9225.4	0.0	9225.4
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	10277.5	0.0	10277.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.5	1.3
10°-20°	295.5	2.9
20°-30°	446.0	4.3
30°-40°	723.8	7.0
40°-50°	1361.1	13.2
50°-60°	2225.5	21.7
60°-70°	2958.5	28.8
70°-80°	1981.3	19.3
80°-90°	155.3	1.5
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°	10277.5	100.0
0°-180°	10277.5	100.0



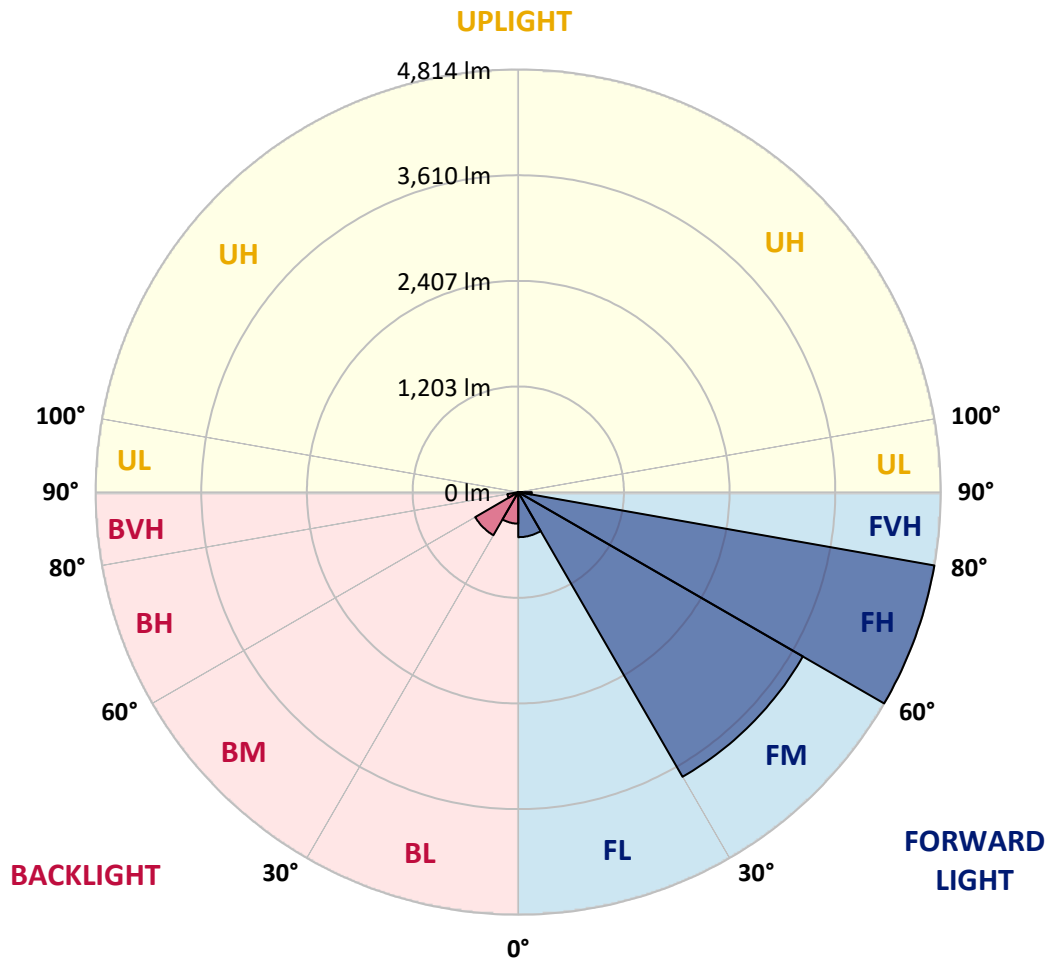
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.1	5.0			
FM (30°-60°)	3744.1	36.4			
FH (60°-80°)	4813.9	46.8			G2/5000
FVH (80°-90°)	154.3	1.5			G2/225
BL (0°-30°)	359.0	3.5	B1/500		
BM (30°-60°)	566.4	5.5	B1/1000		
BH (60°-80°)	125.8	1.2	B1/500		G1/500
BVH (80°-90°)	1.0	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°	34°	35°	45°	55°	65°	75°	85°
0°	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6
2.5°	1329.8	1326.8	1335.7	1350.6	1365.4	1359.5	1387.7	1417.4	1438.2	1466.5	1500.6
5°	1161.9	1169.3	1178.2	1207.9	1227.3	1231.7	1283.7	1322.3	1386.2	1451.6	1512.5
7.5°	1008.8	1017.8	1035.6	1068.3	1108.4	1118.8	1170.8	1248.1	1331.3	1417.4	1517.0
10°	897.4	906.3	925.6	946.4	999.9	999.9	1071.2	1178.2	1286.7	1387.7	1518.5
12.5°	873.6	878.1	876.6	893.0	927.1	934.6	1004.4	1121.8	1248.1	1377.3	1542.2
15°	901.9	904.8	890.0	881.1	910.8	918.2	983.6	1087.6	1222.8	1383.3	1580.9
17.5°	958.3	947.9	918.2	904.8	930.1	934.6	995.5	1086.1	1219.8	1399.6	1625.4
20°	991.0	1002.9	950.9	925.6	961.3	967.2	1032.6	1109.9	1234.7	1427.8	1687.8
22.5°	1049.0	1054.9	985.1	968.7	1002.9	1002.9	1077.2	1157.4	1270.3	1473.9	1762.1
25°	1130.7	1123.3	1041.5	1025.2	1057.9	1071.2	1145.5	1233.2	1325.3	1517.0	1830.5
27.5°	1194.6	1199.0	1132.2	1089.1	1144.1	1153.0	1233.2	1314.9	1366.9	1552.6	1913.7
30°	1289.7	1280.7	1209.4	1160.4	1228.7	1230.2	1307.5	1392.2	1447.2	1616.5	2038.5
32.5°	1402.6	1384.7	1303.0	1233.2	1288.2	1301.5	1380.3	1503.6	1572.0	1736.9	2231.6
35°	1641.8	1598.7	1465.0	1356.5	1361.0	1366.9	1488.8	1665.6	1744.3	1889.9	2490.2
37.5°	1990.9	1973.1	1821.6	1615.0	1536.3	1518.5	1655.2	1879.5	1977.6	2092.0	2826.0
40°	2337.1	2311.9	2170.7	2014.7	1872.1	1836.4	1904.8	2163.3	2252.4	2372.8	3170.7
42.5°	2722.0	2677.4	2511.0	2384.7	2295.5	2256.9	2230.2	2519.9	2620.9	2702.6	3507.9
45°	3111.2	3038.4	2797.7	2701.2	2653.6	2632.8	2629.8	2968.6	3029.5	3045.9	3882.3
47.5°	3453.0	3374.2	3155.8	3047.3	3011.7	3005.7	3172.1	3485.6	3438.1	3395.0	4299.9
50°	3715.9	3665.4	3507.9	3469.3	3442.6	3432.2	3821.4	4017.6	3797.7	3721.9	4666.8
52.5°	4123.0	4010.1	3831.8	3845.2	3938.8	3940.3	4479.6	4522.7	4096.3	3946.2	5013.0
55°	4448.4	4374.1	4228.5	4209.2	4455.9	4482.6	5069.5	4906.1	4262.7	4160.2	5140.8
57.5°	4831.8	4797.6	4692.1	4695.1	4953.6	5010.1	5594.0	5230.0	4400.9	4298.4	5160.1
60°	5386.0	5287.9	5232.9	5258.2	5562.8	5617.7	6102.1	5463.2	4467.7	4389.0	5112.6
62.5°	5998.1	5883.7	5824.3	5953.5	6397.8	6406.7	6488.4	5669.7	4426.1	4412.8	4806.5
65°	6735.0	6622.1	6574.6	6834.6	7362.0	7329.4	7030.7	5757.4	4293.9	4173.6	4002.7
67.5°	7469.0	7400.7	7302.6	7717.2	8373.9	8373.9	7593.8	5724.7	3947.7	3350.4	2617.9
70°	7816.7	7864.2	8020.3	8671.0	9367.9	9296.5	8149.5	5348.8	2938.9	1799.3	1029.6
72°	7584.9	7535.9	7938.5	8983.0	9980.0	9862.6	8055.9	4252.3	1698.2	789.0	358.1
72.5°	7186.7	7232.8	7787.0	8940.0	9865.6	9962.2	7827.1	3922.5	1396.6	628.5	270.4
75°	4406.8	4485.6	5812.4	7590.9	8596.7	8488.3	6054.6	1869.1	536.4	267.4	96.6
77.5°	1609.1	1674.5	2820.0	4776.8	6114.0	6045.6	3503.5	664.1	291.2	199.1	49.0
80°	419.0	453.2	958.3	2203.4	3595.6	3600.0	1466.5	266.0	197.6	163.4	29.7
82.5°	83.2	92.1	294.2	857.3	1680.4	1658.1	463.6	142.6	148.6	133.7	20.8
85°	10.4	13.4	62.4	291.2	543.8	487.3	114.4	71.3	109.9	104.0	13.4
87.5°	1.5	1.5	14.9	66.9	114.4	111.4	23.8	22.3	49.0	63.9	7.4
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°	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6
2.5°	1520.0	1525.9	1546.7	1564.5	1585.3	1591.3	1582.4	1597.2	1576.4	1588.3	1591.3
5°	1522.9	1557.1	1595.7	1621.0	1615.0	1600.2	1588.3	1548.2	1520.0	1509.6	1531.8
7.5°	1543.7	1582.4	1624.0	1624.0	1591.3	1514.0	1439.7	1368.4	1309.0	1279.3	1304.5
10°	1570.5	1610.6	1653.7	1597.2	1475.4	1334.2	1228.7	1095.0	1004.4	956.8	961.3
12.5°	1606.1	1662.6	1677.4	1546.7	1344.6	1135.1	943.5	757.7	671.6	603.2	604.7
15°	1652.2	1707.2	1662.6	1436.8	1178.2	869.2	638.9	462.1	393.7	358.1	358.1
17.5°	1713.1	1754.7	1658.1	1335.7	953.9	594.3	392.2	312.0	297.2	291.2	291.2
20°	1784.4	1815.6	1615.0	1178.2	708.7	381.8	288.2	279.3	280.8	277.8	277.8
22.5°	1864.7	1875.1	1566.0	995.5	479.9	282.3	268.9	270.4	271.9	268.9	270.4
25°	1949.3	1921.1	1494.7	781.5	319.4	257.0	260.0	263.0	264.5	266.0	266.0
27.5°	2044.4	1988.0	1395.1	572.0	249.6	242.2	251.1	260.0	261.5	261.5	260.0
30°	2184.1	2090.5	1298.6	387.8	219.9	225.8	240.7	251.1	258.5	258.5	257.0
32.5°	2360.9	2197.5	1163.4	264.5	203.6	206.5	218.4	239.2	255.6	257.0	252.6
35°	2606.1	2326.7	1022.2	211.0	191.7	193.2	200.6	216.9	245.2	254.1	252.6
37.5°	2864.6	2473.8	846.9	190.2	182.8	181.3	185.7	199.1	224.4	246.6	248.1
40°	3139.5	2628.3	662.7	179.8	175.3	172.4	173.8	179.8	199.1	227.3	233.3
42.5°	3398.0	2768.0	497.7	169.4	167.9	164.9	164.9	166.4	176.8	196.1	199.1
45°	3677.3	2882.4	378.9	162.0	157.5	159.0	153.0	150.1	157.5	159.0	157.5
47.5°	3938.8	2996.8	303.1	153.0	148.6	148.6	141.1	135.2	135.2	121.8	120.3
50°	4184.0	3059.2	242.2	141.1	139.7	138.2	127.8	117.4	108.5	92.1	89.1
52.5°	4387.5	3056.3	187.2	126.3	130.7	126.3	109.9	95.1	81.7	66.9	63.9
55°	4448.4	2913.6	141.1	104.0	111.4	105.5	87.7	74.3	59.4	47.5	46.1
57.5°	4396.4	2696.7	107.0	80.2	86.2	80.2	66.9	55.0	41.6	32.7	29.7
60°	4222.6	2442.6	83.2	62.4	65.4	60.9	50.5	41.6	29.7	20.8	17.8
62.5°	3892.7	2124.7	63.9	49.0	47.5	47.5	38.6	31.2	20.8	11.9	10.4
65°	3194.4	1656.6	49.0	34.2	34.2	34.2	29.7	22.3	13.4	5.9	3.0
67.5°	2005.8	964.3	40.1	26.7	25.3	25.3	20.8	14.9	7.4	1.5	0.0
70°	754.8	353.6	31.2	20.8	19.3	19.3	14.9	8.9	4.5	0.0	0.0
72°	260.0	135.2	25.3	14.9	14.9	13.4	10.4	7.4	3.0	0.0	0.0
72.5°	214.0	108.5	23.8	14.9	13.4	13.4	10.4	7.4	3.0	0.0	0.0
75°	77.3	44.6	16.3	10.4	8.9	8.9	7.4	4.5	1.5	0.0	0.0
77.5°	38.6	28.2	13.4	8.9	7.4	4.5	4.5	3.0	1.5	0.0	0.0
80°	23.8	17.8	7.4	5.9	4.5	3.0	1.5	1.5	0.0	0.0	0.0
82.5°	16.3	10.4	4.5	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
85°	10.4	4.5	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	3.0	1.5	0.0	0.0	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)