

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: P476517

Luminaire Tested: **IFLD-S-SA2E-730-U-T2**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476517  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-730-U-T2  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens  
Light Source: (32) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

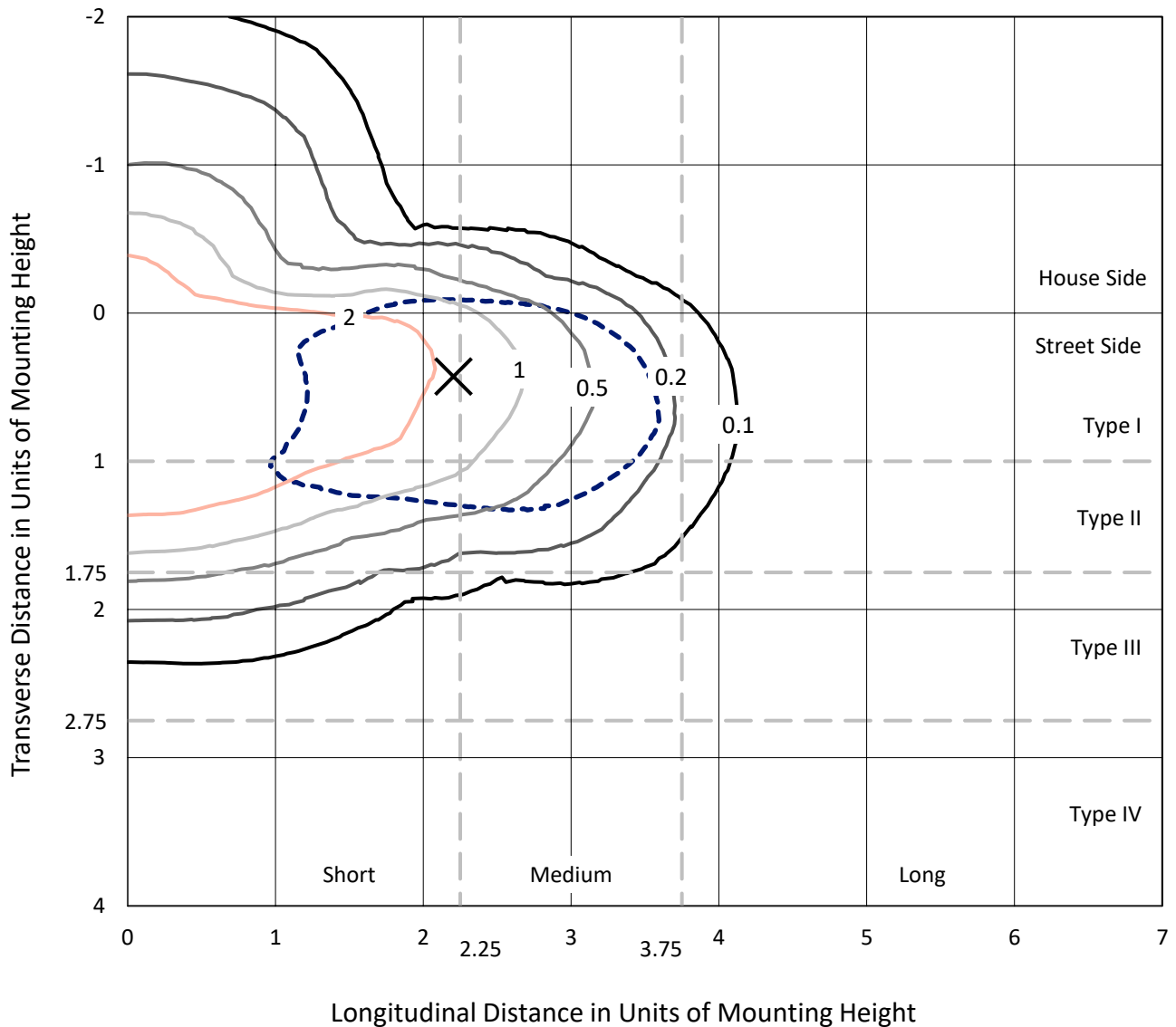
Lumens per Lamp: N/A  
Luminaire Lumens: 16461.4 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2  
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

REPORT NUMBER: P476517  
 CATALOG NUMBER: IFLD-S-SA2E-730-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

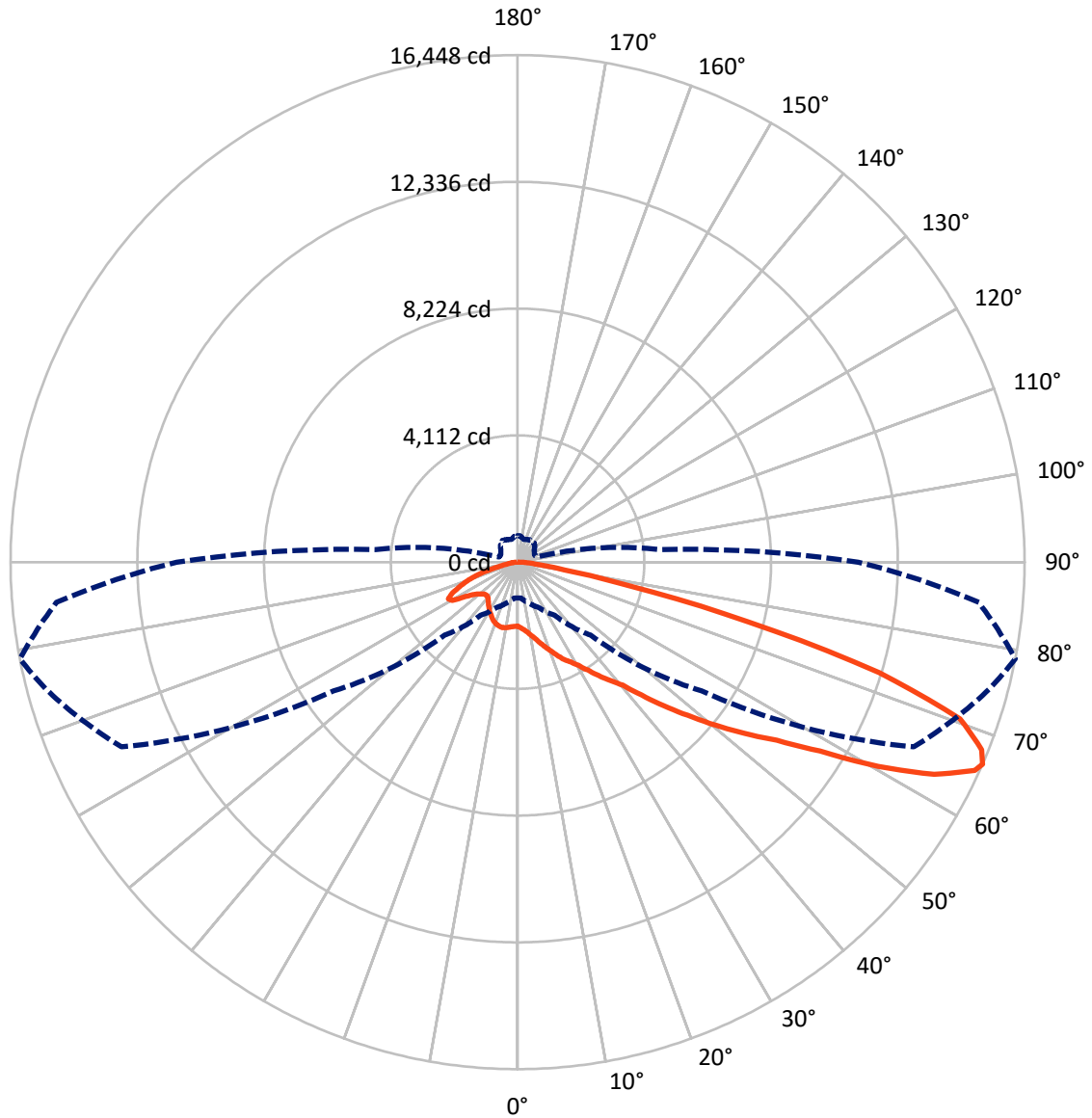
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P476517  
CATALOG NUMBER: IFLD-S-SA2E-730-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P476517

CATALOG NUMBER: IFLD-S-SA2E-730-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3324.2	0.0	3324.2
	% Fixture	20.2	0.0	20.2
<b>Street Side</b>	Lumens	13137.3	0.0	13137.3
	% Fixture	79.8	0.0	79.8
<b>Total</b>	Lumens	16461.4	0.0	16461.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.4	1.2
10°-20°	631.1	3.8
20°-30°	1083.4	6.6
30°-40°	1673.6	10.2
40°-50°	2680.7	16.3
50°-60°	4002.5	24.3
60°-70°	4112.5	25.0
70°-80°	1823.0	11.1
80°-90°	250.1	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°	16461.4	100.0
0°-180°	16461.4	100.0

**Coefficient of Utilization**



REPORT NUMBER: P476517

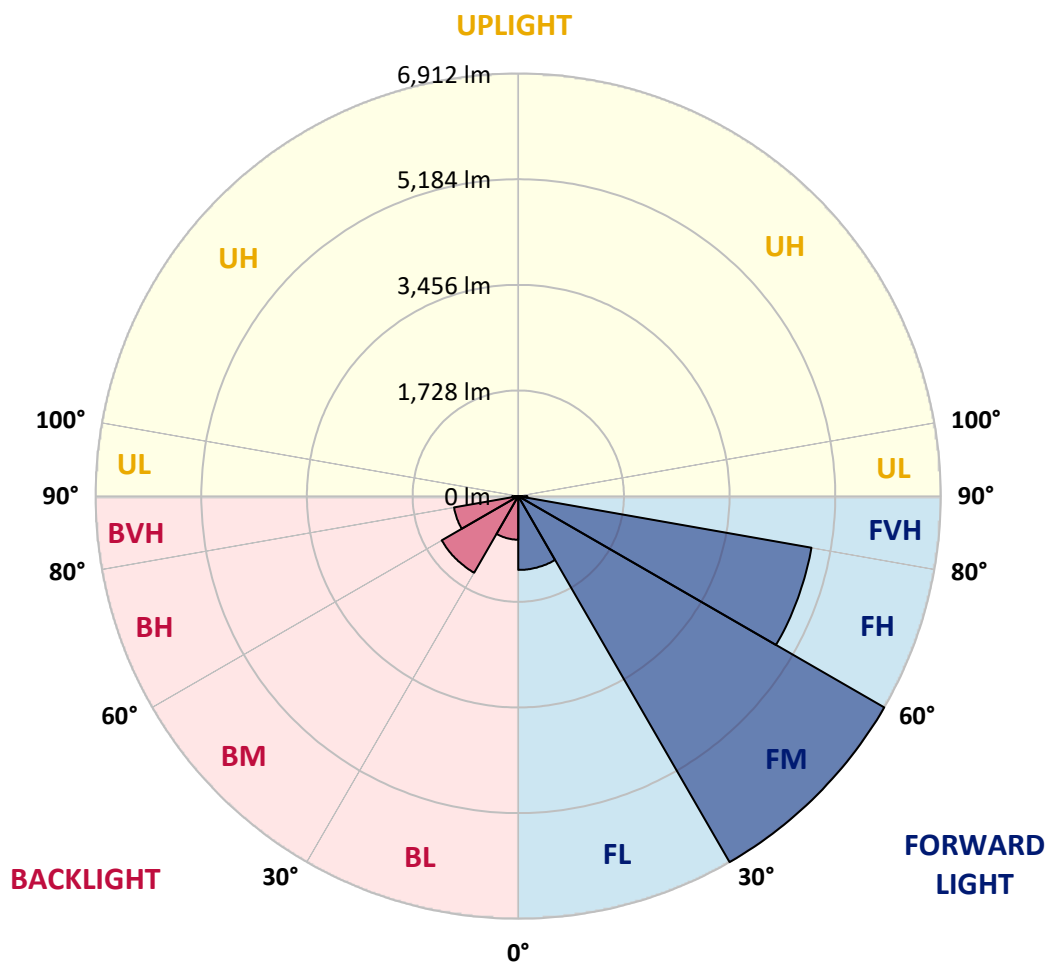
CATALOG NUMBER: IFLD-S-SA2E-730-U-T2

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1206.7	7.3			
FM (30°-60°)	6911.6	42.0			
FH (60°-80°)	4868.9	29.6			G2/5000
FVH (80°-90°)	150.0	0.9			G2/225
BL (0°-30°)	712.2	4.3	B2/1000		
BM (30°-60°)	1445.2	8.8	B2/2500		
BH (60°-80°)	1066.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	100.1	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





REPORT NUMBER: P476517  
 CATALOG NUMBER: IFLD-S-SA2E-730-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6
2.5°	2210.8	2212.6	2212.6	2205.4	2207.2	2212.6	2192.7	2149.2	2149.2	2142.0	2129.3
5°	2346.6	2337.5	2324.9	2326.7	2319.4	2319.4	2297.7	2256.1	2219.8	2205.4	2167.3
7.5°	2364.7	2373.8	2371.9	2393.7	2404.5	2404.5	2415.4	2381.0	2326.7	2292.3	2254.2
10°	2400.9	2377.4	2375.6	2426.3	2442.6	2480.6	2524.0	2505.9	2460.7	2411.8	2361.1
12.5°	2422.6	2437.1	2437.1	2462.5	2500.5	2556.6	2632.7	2667.1	2596.5	2545.8	2467.9
15°	2455.2	2435.3	2493.3	2515.0	2587.4	2627.2	2735.9	2824.6	2777.5	2716.0	2592.8
17.5°	2469.7	2457.0	2489.6	2529.5	2652.6	2712.3	2844.5	2967.6	2927.8	2888.0	2761.2
20°	2544.0	2542.1	2556.6	2589.2	2677.9	2795.6	2960.4	3130.6	3145.1	3072.7	2900.6
22.5°	2725.0	2701.5	2701.5	2688.8	2726.8	2848.1	3070.8	3306.2	3371.4	3286.3	3058.2
25°	2891.6	2924.2	2904.3	2846.3	2831.8	2895.2	3150.5	3492.7	3579.6	3500.0	3271.8
27.5°	3105.3	3116.1	3150.5	3072.7	2973.1	2993.0	3237.4	3597.7	3777.0	3670.2	3393.1
30°	3413.1	3393.1	3385.9	3299.0	3168.6	3141.5	3337.0	3751.7	4035.9	3885.6	3536.2
32.5°	3621.3	3670.2	3668.4	3548.9	3391.3	3331.6	3460.1	3896.5	4312.9	4173.5	3800.5
35°	4034.1	4084.8	4045.0	3869.3	3684.7	3565.2	3637.6	4084.8	4629.8	4521.2	4025.1
37.5°	4561.0	4680.5	4595.4	4271.3	4010.6	3880.2	3883.8	4289.4	4953.9	4865.2	4265.9
40°	4924.9	5086.1	4968.4	4664.2	4387.2	4264.1	4215.2	4532.0	5341.4	5247.2	4642.5
42.5°	5375.8	5509.8	5448.2	5147.7	4823.6	4718.5	4620.8	4937.6	5933.5	5890.0	5125.9
45°	5868.3	5931.7	5911.7	5721.6	5361.3	5325.1	5109.6	5471.8	6630.6	6648.7	5730.7
47.5°	6326.4	6360.8	6398.8	6261.2	6036.7	6067.5	5672.7	6043.9	7307.8	7427.3	6404.2
50°	6444.1	6561.8	6650.5	6742.8	6791.7	6999.9	6293.8	6746.5	8086.3	8318.1	7153.8
52.5°	6324.6	6315.5	6585.3	6875.0	7363.9	7800.2	7139.4	7619.2	8774.4	9232.5	7840.1
55°	5781.4	5763.3	6197.8	6581.7	7535.9	8245.7	8347.1	8781.6	9605.5	10201.2	8768.9
57.5°	4830.8	4718.5	5192.9	5823.0	7162.9	8294.6	9560.2	10507.2	10883.8	11562.8	10186.7
60°	3246.5	3199.4	3653.9	4405.3	5815.8	7601.1	10286.3	12667.3	12685.4	13449.5	12386.6
62.5°	1998.9	2008.0	2299.5	2862.6	4072.1	6025.8	9973.0	14392.8	14396.4	15162.3	14197.2
65°	1307.3	1312.7	1548.1	1859.5	2544.0	4086.6	8247.5	14528.6	15586.0	16297.6	15026.5
66°	1164.2	1166.1	1368.8	1622.3	2107.6	3344.3	7284.2	14175.5	15854.0	16447.9	15015.7
67.5°	981.4	1004.9	1167.9	1363.4	1644.1	2402.7	5779.6	13154.3	15716.4	16237.8	14675.3
70°	767.7	780.4	908.9	1108.1	1233.0	1390.6	3434.8	10722.6	14385.6	15231.1	13436.8
72.5°	615.6	626.5	724.3	899.9	1001.3	916.2	1870.4	7780.3	11363.6	12265.3	10568.7
75°	519.7	521.5	568.5	708.0	823.8	688.0	995.9	4993.8	7291.5	7711.5	6474.9
77.5°	420.1	427.3	459.9	539.6	662.7	541.4	593.9	2797.4	3661.1	3691.9	2993.0
80°	342.2	345.8	365.7	392.9	505.2	400.2	402.0	1365.2	1569.8	1533.6	1216.8
82.5°	269.8	273.4	296.9	291.5	371.2	286.1	249.9	657.3	722.4	708.0	559.5
85°	152.1	152.1	233.6	233.6	235.4	181.1	152.1	309.6	382.0	356.7	262.5
87.5°	48.9	50.7	70.6	74.2	117.7	81.5	74.2	115.9	181.1	159.3	94.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476517  
 CATALOG NUMBER: IFLD-S-SA2E-730-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6	2078.6
2.5°	2122.1	2093.1	2080.4	2038.8	2027.9	2000.8	1988.1	1971.8	1966.4	1942.8	1964.5
5°	2138.4	2129.3	2078.6	2026.1	1986.3	1968.2	1941.0	1904.8	1901.2	1868.6	1865.0
7.5°	2207.2	2176.4	2087.7	2031.5	1951.9	1906.6	1846.9	1828.7	1805.2	1794.3	1817.9
10°	2314.0	2236.1	2104.0	1962.7	1865.0	1810.6	1767.2	1754.5	1756.3	1749.1	1738.2
12.5°	2390.0	2315.8	2076.8	1904.8	1778.1	1725.5	1721.9	1734.6	1754.5	1745.5	1758.1
15°	2498.7	2359.3	2056.9	1808.8	1707.4	1693.0	1691.1	1729.2	1727.4	1727.4	1725.5
17.5°	2600.1	2402.7	1984.5	1725.5	1633.2	1644.1	1656.7	1654.9	1673.0	1680.3	1693.0
20°	2728.6	2453.4	1883.1	1642.3	1577.1	1573.4	1571.6	1573.4	1591.6	1602.4	1593.4
22.5°	2840.9	2464.3	1798.0	1562.6	1510.1	1495.6	1472.1	1495.6	1486.5	1490.2	1501.0
25°	2938.7	2466.1	1676.7	1502.8	1443.1	1410.5	1392.4	1390.6	1374.3	1372.5	1372.5
27.5°	3020.2	2404.5	1569.8	1419.5	1363.4	1332.6	1330.8	1310.9	1269.3	1242.1	1245.7
30°	3083.5	2357.5	1495.6	1347.1	1292.8	1287.4	1271.1	1225.8	1171.5	1137.1	1137.1
32.5°	3195.8	2263.3	1394.2	1272.9	1245.7	1238.5	1200.5	1160.6	1109.9	1077.3	1071.9
35°	3279.1	2176.4	1327.2	1209.5	1196.8	1182.3	1149.8	1106.3	1091.8	1084.6	1090.0
37.5°	3373.2	2078.6	1245.7	1155.2	1167.9	1140.7	1102.7	1082.8	1133.5	1120.8	1126.2
40°	3523.5	2009.8	1166.1	1122.6	1135.3	1104.5	1055.6	1048.4	1111.7	1066.5	1055.6
42.5°	3798.7	2008.0	1117.2	1073.7	1082.8	1059.2	1015.8	1012.1	1037.5	983.2	966.9
45°	4140.9	2071.4	1081.0	1037.5	1030.3	1026.6	1012.1	995.9	974.1	903.5	885.4
47.5°	4550.1	2174.6	1073.7	983.2	992.2	1023.0	1004.9	963.3	907.1	861.9	852.8
50°	5046.3	2388.2	1055.6	943.3	959.6	1008.5	994.0	936.1	885.4	856.4	851.0
52.5°	5594.9	2658.0	1032.1	881.8	918.0	995.9	1003.1	948.8	874.5	849.2	845.6
55°	6241.3	3056.4	1004.9	814.8	869.1	983.2	1003.1	912.6	860.1	860.1	856.4
57.5°	7517.8	3773.4	948.8	753.2	825.7	959.6	974.1	914.4	861.9	861.9	854.6
60°	9390.0	4892.4	841.9	706.2	784.0	927.0	952.4	887.2	841.9	852.8	851.0
62.5°	10854.8	5232.8	751.4	660.9	742.4	867.3	923.4	858.2	818.4	858.2	861.9
65°	11168.0	4888.7	659.1	612.0	684.4	809.4	881.8	816.6	784.0	861.9	865.5
66°	11055.8	4620.8	626.5	597.5	659.1	780.4	856.4	802.1	765.9	858.2	860.1
67.5°	10556.0	4218.8	590.3	566.7	624.7	738.7	827.5	782.2	736.9	847.4	831.1
70°	9469.7	3577.8	528.7	512.4	575.8	669.9	760.5	731.5	691.7	780.4	751.4
72.5°	7293.3	2859.0	463.5	465.3	519.7	599.3	693.5	673.6	639.2	684.4	666.3
75°	4441.5	1826.9	403.8	407.4	452.7	532.3	630.1	615.6	574.0	599.3	590.3
77.5°	1968.2	905.3	340.4	347.6	383.9	469.0	548.6	525.1	481.6	487.1	483.4
80°	764.1	429.1	277.0	286.1	309.6	374.8	454.5	432.7	394.7	387.5	383.9
82.5°	367.6	239.0	213.7	217.3	226.3	298.8	391.1	363.9	313.2	280.6	280.6
85°	184.7	148.5	150.3	137.6	150.3	202.8	264.4	220.9	182.9	163.0	166.6
87.5°	74.2	74.2	74.2	63.4	67.0	96.0	123.1	83.3	76.0	45.3	45.3
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)