

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: P476923

Luminaire Tested: **IFLD-S-SA6A-730-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476923  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-730-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (96) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

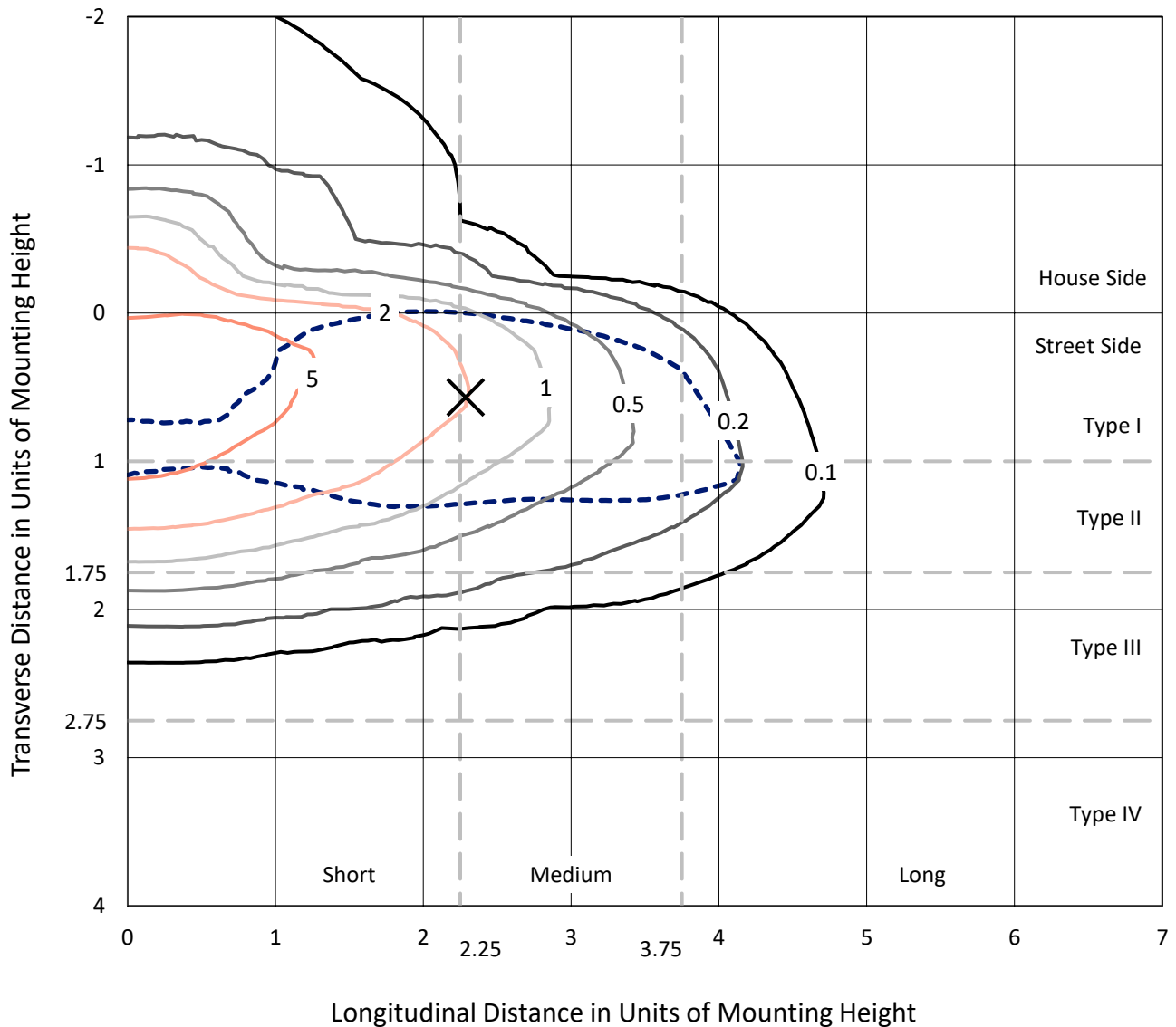
Lumens per Lamp: N/A  
Luminaire Lumens: 24715.2 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.6  
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

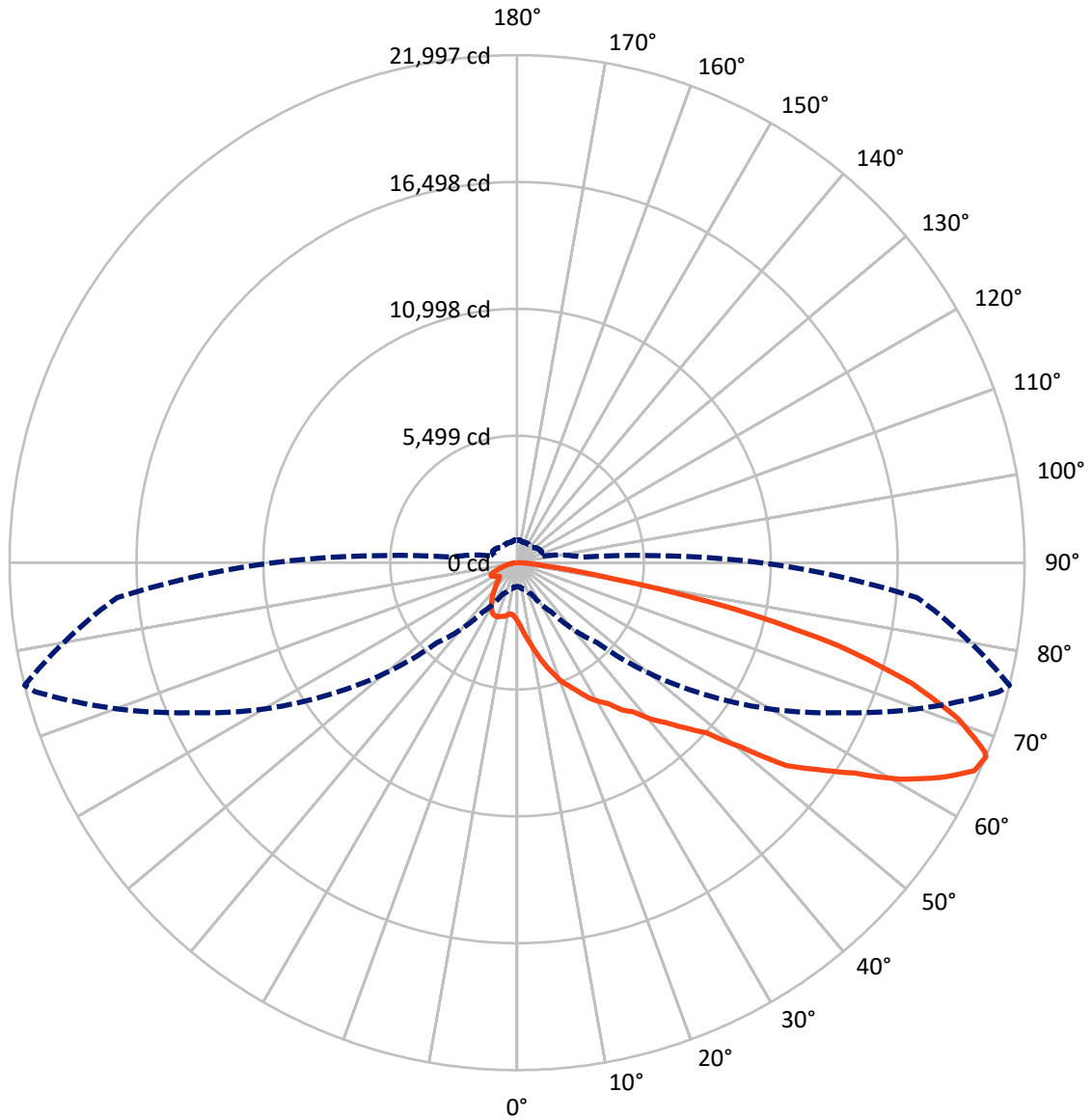
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3516.0	0.0	3516.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	21199.1	0.0	21199.1
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	24715.2	0.0	24715.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.0	1.2
10°-20°	1098.8	4.4
20°-30°	2042.8	8.3
30°-40°	3238.3	13.1
40°-50°	4478.9	18.1
50°-60°	5509.3	22.3
60°-70°	5126.7	20.7
70°-80°	2572.5	10.4
80°-90°	354.7	1.4
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°	24715.2	100.0
0°-180°	24715.2	100.0

**Coefficient of Utilization**



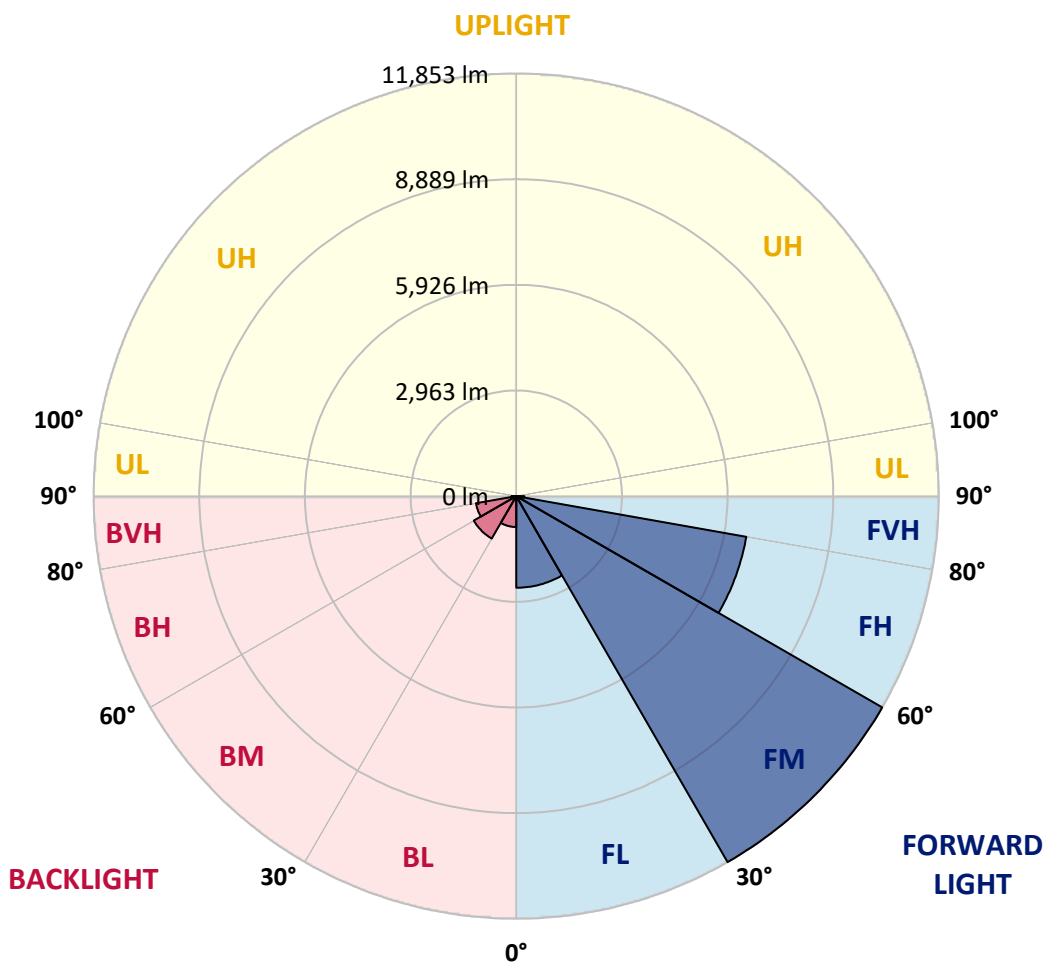
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2568.7	10.4			
FM (30°-60°)	11852.6	48.0			
FH (60°-80°)	6551.8	26.5			G3/7500
FVH (80°-90°)	226.0	0.9			G3/500
BL (0°-30°)	865.9	3.5	B2/1000		
BM (30°-60°)	1374.0	5.6	B2/2500		
BH (60°-80°)	1147.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	128.7	0.5			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2
2.5°	3509.4	3467.1	3424.9	3334.7	3303.8	3219.3	3064.4	2892.5	2751.7	2732.0	2633.4
5°	4354.3	4292.4	4278.3	4227.6	4067.0	3903.7	3650.2	3374.2	3030.6	3055.9	2717.9
7.5°	4988.0	4951.4	4875.4	4827.5	4731.7	4514.9	4252.9	3886.8	3450.2	3365.7	2906.6
10°	5466.8	5416.1	5413.3	5371.1	5320.4	5097.9	4897.9	4405.0	3844.5	3729.0	3137.6
12.5°	5709.1	5700.6	5849.9	5849.9	5830.2	5737.2	5393.6	4943.0	4219.1	4179.7	3405.2
15°	5971.0	5900.6	6030.1	6128.7	6179.4	6227.3	5942.8	5466.8	4697.9	4621.9	3692.4
17.5°	5971.0	5965.4	6094.9	6258.3	6523.0	6585.0	6430.1	5948.5	5095.1	5038.7	4007.9
20°	5869.6	5951.3	6041.4	6261.1	6548.4	6799.0	6844.1	6441.3	5534.4	5489.4	4365.6
22.5°	6342.8	6263.9	6356.8	6441.3	6663.8	7044.1	7168.0	6875.1	5996.3	5824.5	4689.5
25°	7137.0	7083.5	7015.9	6892.0	6984.9	7151.1	7339.8	7196.2	6390.6	6199.1	5002.1
27.5°	7911.6	7914.4	7767.9	7497.5	7297.6	7331.4	7553.9	7477.8	6723.0	6638.5	5216.2
30°	9012.8	8945.2	8781.9	8415.7	8024.2	7703.1	7666.5	7739.8	7145.5	6982.1	5523.2
32.5°	9838.0	9852.1	9621.2	9094.5	8559.4	8297.4	7976.3	8007.3	7413.0	7291.9	5768.2
35°	10505.6	10488.7	10325.3	9888.7	9255.0	8939.6	8505.8	8328.4	8035.5	7844.0	6142.8
37.5°	11226.6	11088.6	10823.8	10330.9	9925.4	9488.8	9066.3	8666.4	8449.5	8218.6	6463.9
40°	11516.7	11516.7	11161.8	10936.5	10454.9	10125.3	9852.1	9111.4	8953.7	8908.6	6875.1
42.5°	11311.1	11437.8	11291.4	11035.1	10837.9	10421.1	10347.8	9573.3	9576.1	9486.0	7368.0
45°	11291.4	11116.7	10995.6	11060.4	10967.5	10944.9	11130.8	10212.6	10229.5	10218.3	8029.8
47.5°	10725.2	10646.4	10826.6	10933.7	11009.7	11359.0	11894.1	10975.9	11097.0	11012.5	8793.1
50°	10161.9	10147.9	10260.5	10649.2	10978.7	11553.3	12620.7	12153.2	12550.3	12544.7	10176.0
52.5°	8618.5	8767.8	9210.0	10032.4	10846.4	11818.0	13170.0	13657.2	14414.9	14620.5	11322.3
55°	7142.7	7063.8	7717.2	8911.4	10269.0	11922.3	13784.0	14561.3	15676.7	15825.9	12499.6
57.5°	5557.0	5703.4	6218.8	7365.2	9074.8	11406.8	14234.6	15454.2	17101.8	17217.3	13865.6
60°	4145.9	4165.6	4731.7	5655.5	7486.3	10243.6	14381.1	16369.5	18735.4	19064.9	15296.4
62.5°	2608.1	2726.4	3157.3	4067.0	5635.8	8615.7	13724.8	16924.4	20447.8	20535.1	16738.5
65°	1405.4	1481.5	1805.4	2377.1	3937.5	6517.4	11984.2	16592.0	21253.3	21771.6	17380.6
67°	1039.3	1053.4	1202.6	1518.1	2633.4	4906.3	9993.0	15389.4	21619.5	21996.9	17406.0
67.5°	974.5	994.2	1112.5	1363.2	2334.9	4517.7	9471.9	14961.3	21456.1	21861.7	17208.8
70°	833.7	839.3	867.5	937.9	1309.7	2717.9	6449.8	12260.2	19887.3	20276.0	15825.9
72.5°	740.7	746.4	757.6	771.7	887.2	1571.6	3923.4	9435.3	17284.9	17904.5	13654.4
75°	650.6	670.3	676.0	664.7	754.8	1022.4	2087.0	6934.2	14099.4	14400.8	10618.2
77.5°	552.0	560.5	571.8	583.0	673.1	763.3	1002.7	4681.0	9677.5	9494.4	5742.8
80°	464.7	467.5	476.0	484.4	583.0	583.0	568.9	2529.2	4227.6	4041.7	1940.6
82.5°	332.3	352.1	371.8	394.3	484.4	391.5	371.8	1126.6	1337.8	1273.1	656.2
85°	129.6	157.7	245.0	270.4	307.0	211.2	247.9	487.3	557.7	552.0	245.0
87.5°	22.5	25.3	67.6	104.2	112.7	73.2	118.3	174.6	208.4	225.3	90.1
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°	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2
2.5°	2551.8	2464.4	2360.2	2256.0	2188.4	2081.4	2072.9	2008.2	1999.7	1977.2	1988.5
5°	2571.5	2467.3	2256.0	2089.8	2013.8	1951.8	1965.9	1937.8	1929.3	1915.2	1892.7
7.5°	2726.4	2520.8	2205.3	2061.7	2005.4	1977.2	1977.2	1943.4	1918.0	1934.9	1951.8
10°	2827.8	2546.1	2244.8	2101.1	2056.0	1994.1	2016.6	1974.4	1988.5	1954.7	1954.7
12.5°	2991.1	2689.8	2326.4	2160.3	2087.0	2030.7	2053.2	2005.4	1994.1	1996.9	1988.5
15°	3210.8	2785.5	2363.0	2194.1	2143.4	2072.9	2056.0	2013.8	1971.6	1957.5	1974.4
17.5°	3416.4	2903.8	2388.4	2213.8	2132.1	2053.2	2033.5	1980.0	1965.9	1923.7	1889.9
20°	3661.5	3044.6	2422.2	2230.7	2089.8	2011.0	1960.3	1906.8	1858.9	1833.5	1844.8
22.5°	3824.8	3117.9	2439.1	2196.9	2027.9	1954.7	1847.6	1811.0	1743.4	1715.3	1692.7
25°	4092.4	3208.0	2396.8	2103.9	1918.0	1799.7	1704.0	1653.3	1605.4	1568.8	1557.5
27.5°	4160.0	3275.6	2298.3	1946.2	1743.4	1619.5	1537.8	1475.8	1444.9	1388.5	1377.3
30°	4357.1	3208.0	2151.8	1754.7	1577.2	1450.5	1368.8	1323.8	1250.5	1236.4	1205.5
32.5°	4483.9	3227.7	1965.9	1568.8	1385.7	1273.1	1219.5	1174.5	1154.8	1087.2	1070.3
35°	4695.1	3160.1	1777.2	1397.0	1228.0	1140.7	1095.6	1081.5	1016.8	985.8	957.6
37.5°	4830.3	3120.7	1588.5	1202.6	1056.2	1019.6	1033.7	974.5	895.6	836.5	816.8
40°	5066.9	3106.6	1374.5	1042.1	937.9	929.4	974.5	861.8	718.2	667.5	639.3
42.5°	5407.7	3010.8	1208.3	898.5	845.0	881.6	890.0	718.2	636.5	594.3	574.6
45°	5734.4	3030.6	1044.9	743.6	735.1	788.6	768.9	608.4	560.5	529.5	546.4
47.5°	6362.5	3129.1	884.4	619.6	661.9	712.6	597.1	543.6	498.5	476.0	478.8
50°	7334.2	3224.9	743.6	566.1	625.3	645.0	512.6	492.9	490.1	445.0	442.2
52.5°	7917.2	3188.3	718.2	633.7	670.3	645.0	557.7	543.6	521.1	501.3	478.8
55°	8843.8	3295.3	771.7	740.7	760.5	619.6	625.3	619.6	602.7	552.0	566.1
57.5°	9581.7	3365.7	842.1	828.1	816.8	645.0	653.4	656.2	645.0	622.4	642.2
60°	10595.7	3506.5	915.4	918.2	921.0	701.3	715.4	732.3	729.5	721.0	726.7
62.5°	11218.1	3441.8	997.0	1042.1	1028.0	816.8	814.0	825.2	825.2	839.3	847.8
65°	11125.2	3202.4	1039.3	1151.9	1078.7	901.3	901.3	906.9	909.7	937.9	940.7
67°	10567.5	2774.3	1016.8	1168.8	1078.7	935.1	935.1	940.7	921.0	994.2	971.7
67.5°	10308.4	2647.5	997.0	1154.8	1070.3	932.3	932.3	935.1	918.2	988.6	966.1
70°	8964.9	1965.9	859.0	1022.4	991.4	906.9	906.9	890.0	875.9	968.9	949.2
72.5°	7652.4	1428.0	690.0	870.3	895.6	873.1	878.7	836.5	797.1	861.8	845.0
75°	5861.1	1050.6	538.0	670.3	757.6	816.8	853.4	746.4	695.7	712.6	681.6
77.5°	3270.0	684.4	425.3	495.7	577.4	760.5	819.6	673.1	568.9	549.2	549.2
80°	1109.7	399.9	312.6	369.0	397.1	673.1	766.1	546.4	447.8	428.1	414.0
82.5°	419.7	245.0	214.1	253.5	253.5	532.3	625.3	419.7	338.0	436.6	445.0
85°	191.5	146.5	140.8	146.5	146.5	326.7	442.2	273.2	304.2	261.9	231.0
87.5°	76.0	70.4	64.8	62.0	50.7	56.3	152.1	73.2	138.0	36.6	33.8
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)