

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: P477167

Luminaire Tested: **IFLD-L-SA7A-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477167
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

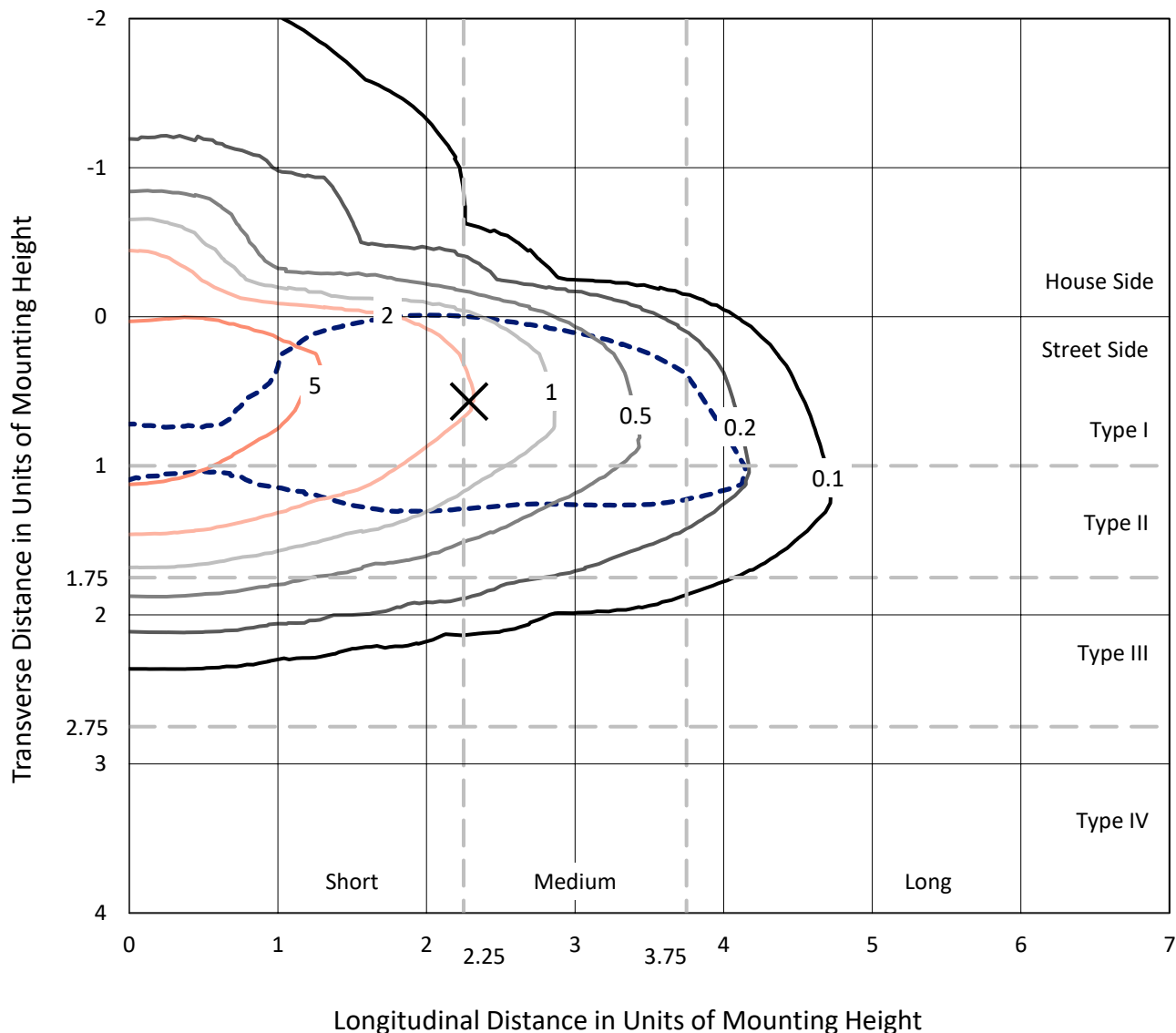
Lumens per Lamp: N/A
Luminaire Lumens: 25011.2 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 217.6
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

REPORT NUMBER: P477167
 CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

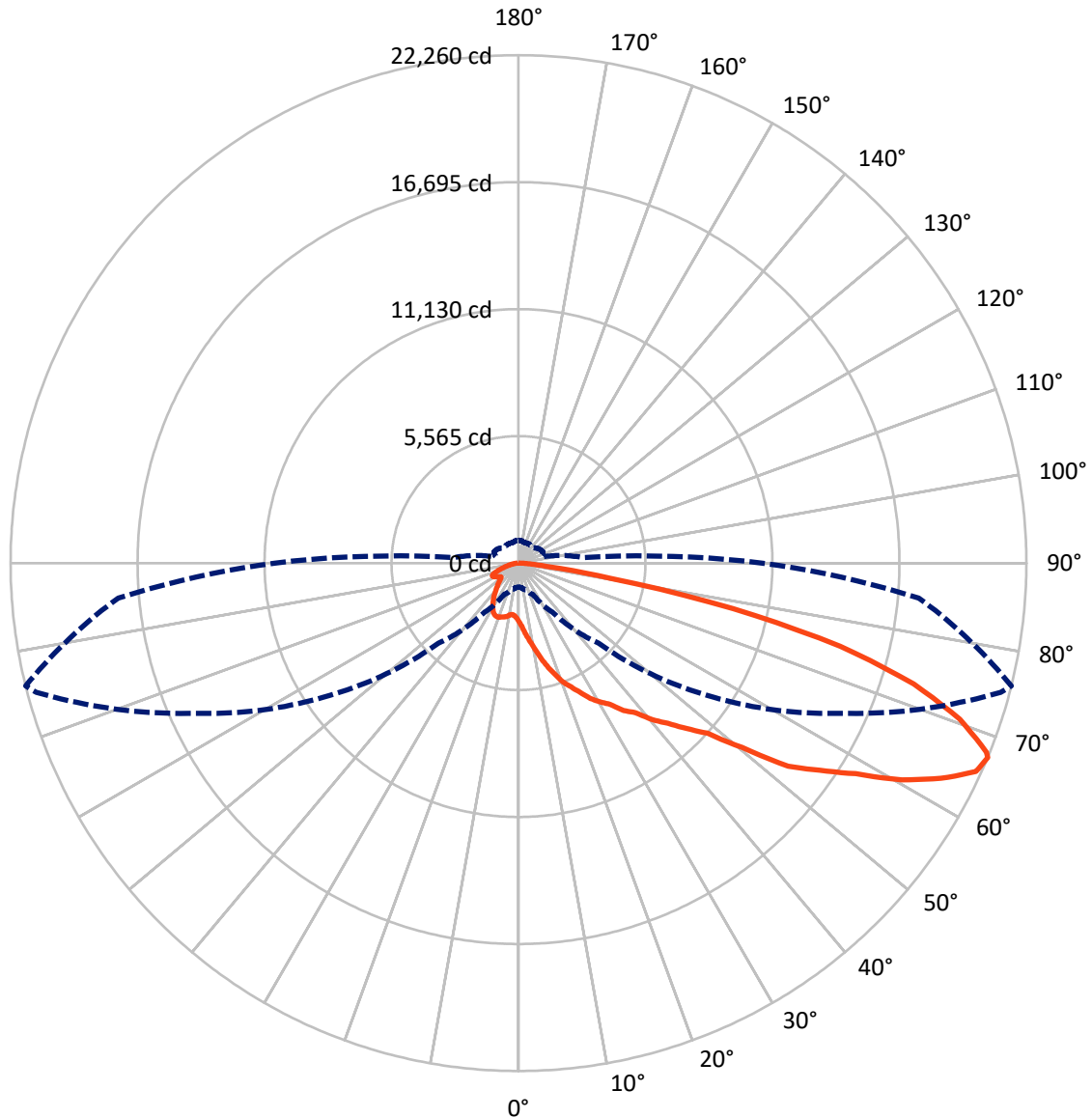
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P477167
CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477167
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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3558.2	0.0	3558.2
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	21453.0	0.0	21453.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	25011.2	0.0	25011.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.5	1.2
10°-20°	1112.0	4.4
20°-30°	2067.3	8.3
30°-40°	3277.1	13.1
40°-50°	4532.6	18.1
50°-60°	5575.3	22.3
60°-70°	5188.1	20.7
70°-80°	2603.4	10.4
80°-90°	359.0	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°	25011.2	100.0
0°-180°	25011.2	100.0

Coefficient of Utilization



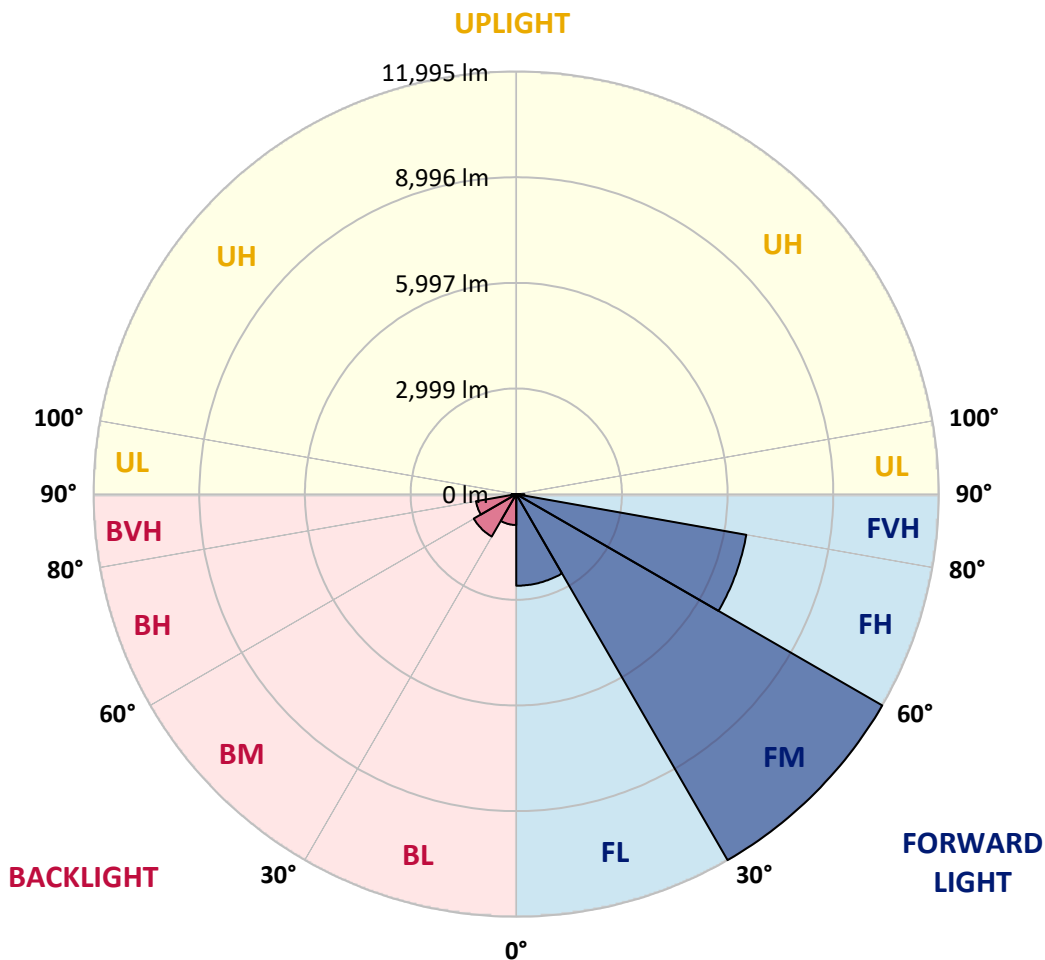
REPORT NUMBER: P477167
 CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2599.5	10.4			
FM (30°-60°)	11994.6	48.0			
FH (60°-80°)	6630.3	26.5			G3/7500
FVH (80°-90°)	228.7	0.9			G3/500
BL (0°-30°)	876.2	3.5	B2/1000		
BM (30°-60°)	1390.5	5.6	B2/2500		
BH (60°-80°)	1161.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	130.3	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





REPORT NUMBER: P477167

CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5
2.5°	3551.4	3508.6	3465.9	3374.7	3343.3	3257.8	3101.1	2927.2	2784.7	2764.7	2665.0
5°	4406.5	4343.8	4329.5	4278.2	4115.7	3950.4	3693.9	3414.6	3066.9	3092.5	2750.5
7.5°	5047.8	5010.7	4933.8	4885.3	4788.4	4568.9	4303.9	3933.3	3491.5	3406.0	2941.4
10°	5532.3	5481.0	5478.2	5435.4	5384.1	5158.9	4956.6	4457.8	3890.6	3773.7	3175.2
12.5°	5777.4	5768.9	5919.9	5919.9	5900.0	5805.9	5458.2	5002.2	4269.7	4229.7	3445.9
15°	6042.5	5971.2	6102.4	6202.1	6253.4	6301.9	6014.0	5532.3	4754.2	4677.2	3736.7
17.5°	6042.5	6036.8	6167.9	6333.2	6601.1	6663.9	6507.1	6019.7	5156.1	5099.1	4055.9
20°	5939.9	6022.5	6113.8	6336.1	6626.8	6880.5	6926.1	6518.5	5600.7	5555.1	4417.9
22.5°	6418.7	6338.9	6433.0	6518.5	6743.7	7128.4	7253.8	6957.4	6068.2	5894.3	4745.6
25°	7222.5	7168.3	7099.9	6974.5	7068.6	7236.7	7427.7	7282.4	6467.2	6273.4	5062.0
27.5°	8006.3	8009.2	7861.0	7587.3	7385.0	7419.2	7644.3	7567.4	6803.5	6718.0	5278.6
30°	9120.8	9052.3	8887.0	8516.5	8120.3	7795.4	7758.3	7832.4	7231.0	7065.7	5589.3
32.5°	9955.9	9970.1	9736.4	9203.4	8661.9	8396.8	8071.9	8103.2	7501.8	7379.3	5837.3
35°	10631.4	10614.3	10449.0	10007.2	9365.9	9046.6	8607.7	8428.1	8131.7	7937.9	6216.4
37.5°	11361.0	11221.4	10953.5	10454.7	10044.2	9602.4	9174.9	8770.2	8550.7	8317.0	6541.3
40°	11654.6	11654.6	11295.5	11067.5	10580.1	10246.6	9970.1	9220.5	9060.9	9015.3	6957.4
42.5°	11446.5	11574.8	11426.6	11167.2	10967.7	10545.9	10471.8	9688.0	9690.8	9599.6	7456.2
45°	11426.6	11249.9	11127.3	11192.9	11098.8	11076.0	11264.1	10335.0	10352.1	10340.7	8126.0
47.5°	10853.7	10773.9	10956.3	11064.6	11141.6	11495.0	12036.5	11107.4	11229.9	11144.4	8898.4
50°	10283.7	10269.4	10383.4	10776.7	11110.2	11691.7	12771.9	12298.8	12700.7	12694.9	10297.9
52.5°	8721.7	8872.8	9320.3	10152.5	10976.3	11959.6	13327.7	13820.8	14587.5	14795.6	11457.9
55°	7228.2	7148.4	7809.6	9018.1	10392.0	12065.0	13949.1	14735.7	15864.4	16015.5	12649.3
57.5°	5623.5	5771.7	6293.3	7453.4	9183.5	11543.5	14405.1	15639.2	17306.6	17423.5	14031.7
60°	4195.5	4215.5	4788.4	5723.3	7575.9	10366.3	14553.3	16565.6	18959.8	19293.2	15479.6
62.5°	2639.3	2759.0	3195.1	4115.7	5703.3	8718.9	13889.2	17127.1	20692.7	20781.1	16939.0
65°	1422.3	1499.2	1827.0	2405.6	3984.6	6595.4	12127.8	16790.7	21507.9	22032.3	17588.8
67°	1051.7	1066.0	1217.1	1536.3	2665.0	4965.1	10112.6	15573.7	21878.4	22260.3	17614.5
67.5°	986.2	1006.1	1125.8	1379.5	2362.8	4571.8	9585.3	15140.5	21713.1	22123.5	17414.9
70°	843.7	849.4	877.9	949.1	1325.4	2750.5	6527.0	12407.1	20125.5	20518.8	16015.5
72.5°	749.6	755.3	766.7	781.0	897.8	1590.4	3970.4	9548.3	17491.9	18118.9	13817.9
75°	658.4	678.4	684.1	672.7	763.9	1034.6	2112.0	7017.3	14268.3	14573.3	10745.4
77.5°	558.6	567.2	578.6	590.0	681.2	772.4	1014.7	4737.1	9793.4	9608.1	5811.6
80°	470.3	473.1	481.7	490.2	590.0	590.0	575.7	2559.5	4278.2	4090.1	1963.8
82.5°	336.3	356.3	376.2	399.0	490.2	396.2	376.2	1140.1	1353.9	1288.3	664.1
85°	131.1	159.6	248.0	273.6	310.7	213.8	250.8	493.1	564.3	558.6	248.0
87.5°	22.8	25.7	68.4	105.5	114.0	74.1	119.7	176.7	210.9	228.0	91.2
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: P477167
 CATALOG NUMBER: IFLD-L-SA7A-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5	2559.5
2.5°	2582.3	2494.0	2388.5	2283.0	2214.6	2106.3	2097.8	2032.2	2023.7	2000.9	2012.3
5°	2602.3	2496.8	2283.0	2114.9	2037.9	1975.2	1989.5	1961.0	1952.4	1938.2	1915.4
7.5°	2759.0	2551.0	2231.7	2086.4	2029.4	2000.9	2000.9	1966.7	1941.0	1958.1	1975.2
10°	2861.6	2576.6	2271.6	2126.3	2080.7	2018.0	2040.8	1998.0	2012.3	1978.1	1978.1
12.5°	3027.0	2722.0	2354.3	2186.1	2112.0	2055.0	2077.8	2029.4	2018.0	2020.8	2012.3
15°	3249.3	2818.9	2391.3	2220.3	2169.0	2097.8	2080.7	2037.9	1995.2	1980.9	1998.0
17.5°	3457.3	2938.6	2417.0	2240.3	2157.6	2077.8	2057.9	2003.7	1989.5	1946.7	1912.5
20°	3705.3	3081.1	2451.2	2257.4	2114.9	2035.1	1983.8	1929.6	1881.2	1855.5	1866.9
22.5°	3870.6	3155.2	2468.3	2223.2	2052.2	1978.1	1869.8	1832.7	1764.3	1735.8	1713.0
25°	4141.4	3246.4	2425.6	2129.1	1941.0	1821.3	1724.4	1673.1	1624.6	1587.6	1576.2
27.5°	4209.8	3314.8	2325.8	1969.5	1764.3	1638.9	1556.2	1493.5	1462.2	1405.2	1393.8
30°	4409.3	3246.4	2177.6	1775.7	1596.1	1467.9	1385.2	1339.6	1265.5	1251.3	1219.9
32.5°	4537.6	3266.4	1989.5	1587.6	1402.3	1288.3	1234.2	1188.5	1168.6	1100.2	1083.1
35°	4751.3	3198.0	1798.5	1413.7	1242.7	1154.3	1108.7	1094.5	1028.9	997.6	969.1
37.5°	4888.2	3158.1	1607.5	1217.1	1068.8	1031.8	1046.0	986.2	906.4	846.5	826.6
40°	5127.6	3143.8	1390.9	1054.6	949.1	940.6	986.2	872.2	726.8	675.5	647.0
42.5°	5472.5	3046.9	1222.8	909.2	855.1	892.1	900.7	726.8	644.2	601.4	581.4
45°	5803.1	3066.9	1057.4	752.5	743.9	798.1	778.1	615.7	567.2	535.8	552.9
47.5°	6438.7	3166.6	895.0	627.1	669.8	721.1	604.2	550.1	504.5	481.7	484.5
50°	7422.0	3263.5	752.5	572.9	632.8	652.7	518.7	498.8	495.9	450.3	447.5
52.5°	8012.0	3226.5	726.8	641.3	678.4	652.7	564.3	550.1	527.3	507.3	484.5
55°	8949.7	3334.8	781.0	749.6	769.6	627.1	632.8	627.1	610.0	558.6	572.9
57.5°	9696.5	3406.0	852.2	838.0	826.6	652.7	661.3	664.1	652.7	629.9	649.9
60°	10722.6	3548.5	926.3	929.2	932.0	709.7	724.0	741.1	738.2	729.7	735.4
62.5°	11352.5	3483.0	1009.0	1054.6	1040.3	826.6	823.7	835.1	835.1	849.4	857.9
65°	11258.4	3240.7	1051.7	1165.7	1091.6	912.1	912.1	917.8	920.6	949.1	952.0
67°	10694.1	2807.5	1028.9	1182.8	1091.6	946.3	946.3	952.0	932.0	1006.1	983.3
67.5°	10431.9	2679.2	1009.0	1168.6	1083.1	943.4	943.4	946.3	929.2	1000.4	977.6
70°	9072.3	1989.5	869.3	1034.6	1003.3	917.8	917.8	900.7	886.4	980.5	960.5
72.5°	7744.1	1445.1	698.3	880.7	906.4	883.6	889.3	846.5	806.6	872.2	855.1
75°	5931.3	1063.1	544.4	678.4	766.7	826.6	863.6	755.3	704.0	721.1	689.8
77.5°	3309.1	692.6	430.4	501.6	584.3	769.6	829.4	681.2	575.7	555.8	555.8
80°	1123.0	404.7	316.4	373.4	401.9	681.2	775.3	552.9	453.2	433.2	419.0
82.5°	424.7	248.0	216.6	256.5	256.5	538.7	632.8	424.7	342.0	441.8	450.3
85°	193.8	148.2	142.5	148.2	148.2	330.6	447.5	276.5	307.8	265.1	233.7
87.5°	77.0	71.3	65.6	62.7	51.3	57.0	153.9	74.1	139.7	37.1	34.2
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)