

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: P477157

Luminaire Tested: **IFLD-S-SA6A-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477157
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

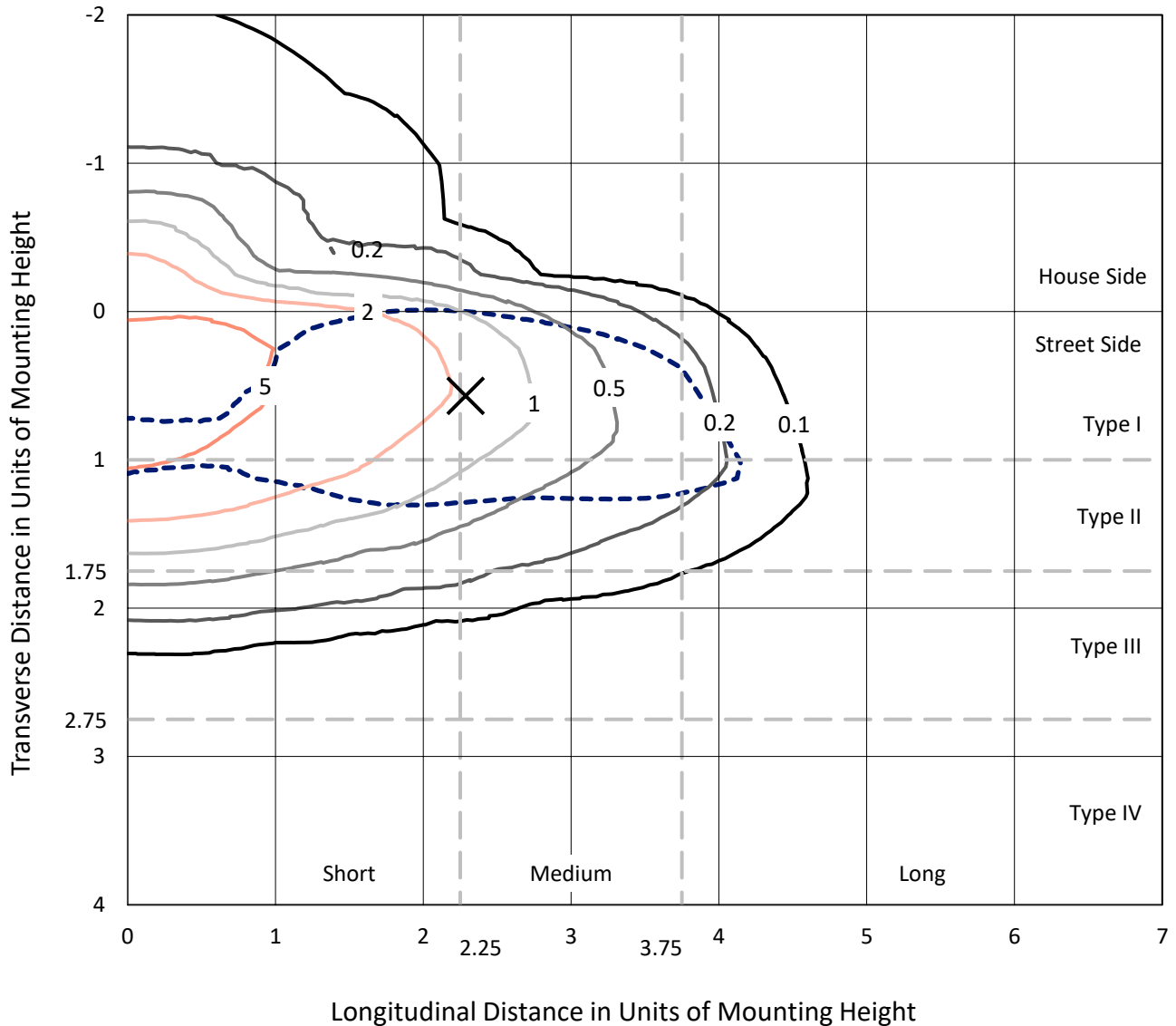
Lumens per Lamp: N/A
Luminaire Lumens: 21566.7 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (A_{in}): 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: P477157
 CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

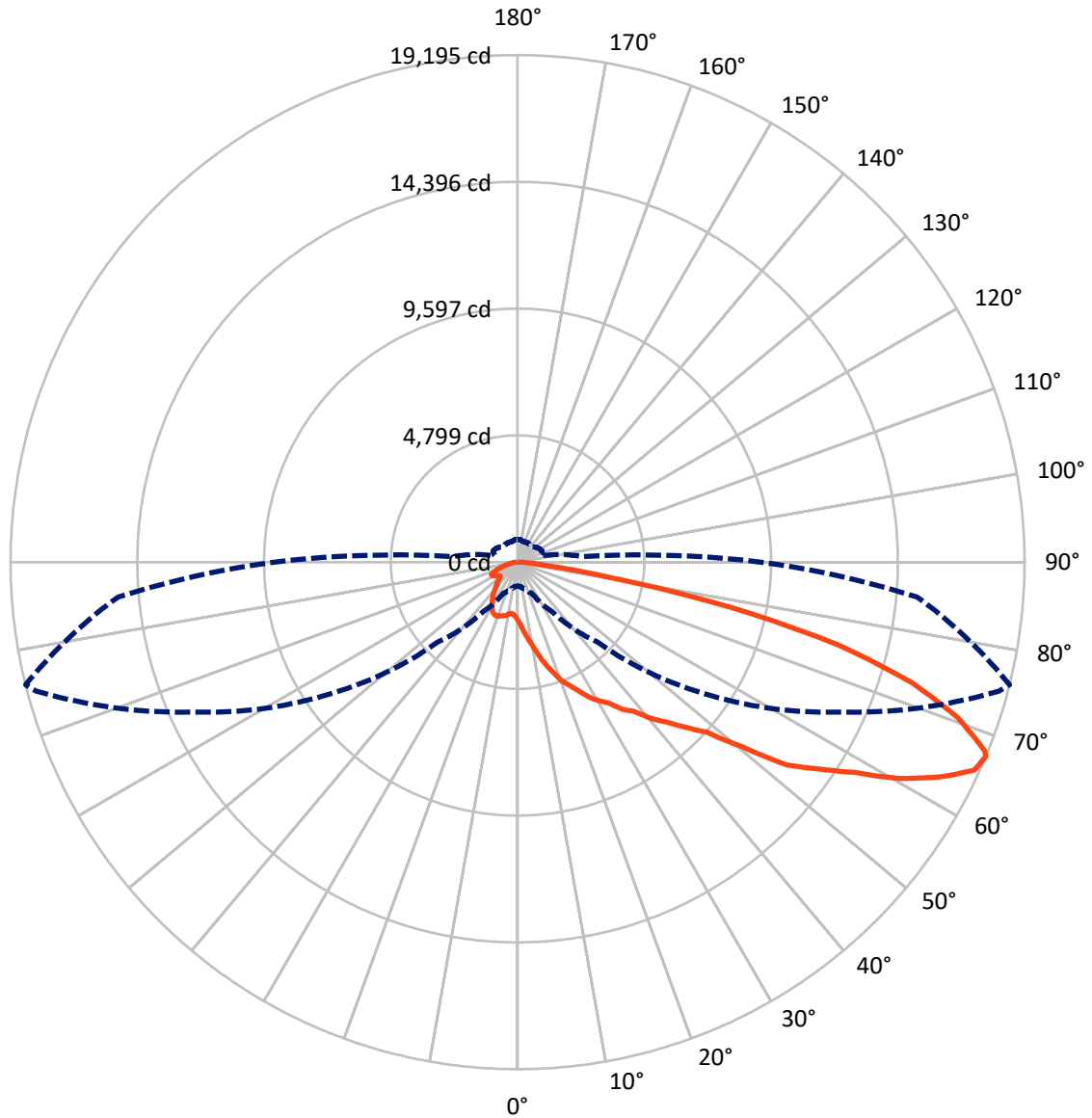
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P477157
CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P477157
 CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3068.1	0.0	3068.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	18498.6	0.0	18498.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	21566.7	0.0	21566.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.6	1.2
10°-20°	958.8	4.4
20°-30°	1782.6	8.3
30°-40°	2825.8	13.1
40°-50°	3908.3	18.1
50°-60°	4807.5	22.3
60°-70°	4473.6	20.7
70°-80°	2244.8	10.4
80°-90°	309.5	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°	21566.7	100.0
0°-180°	21566.7	100.0

Coefficient of Utilization



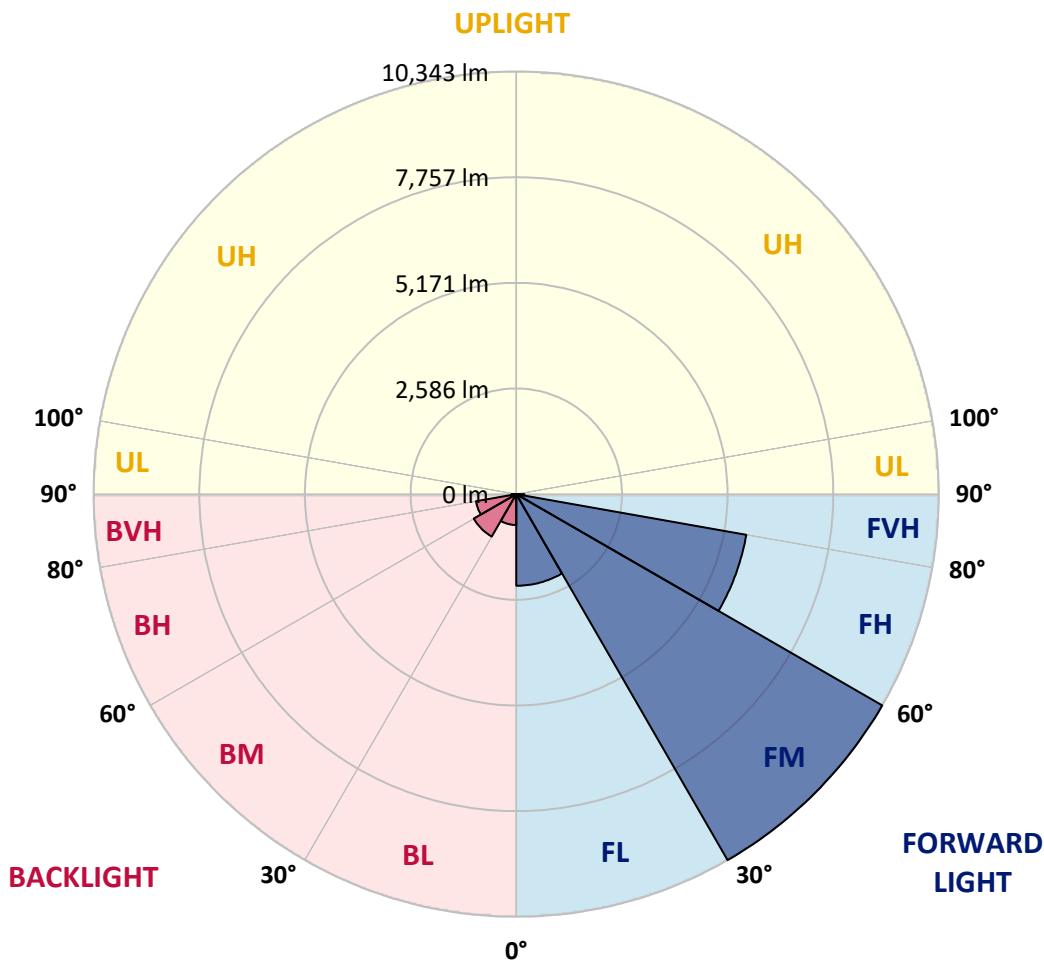
REPORT NUMBER: P477157
 CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2241.5	10.4			
FM (30°-60°)	10342.7	48.0			
FH (60°-80°)	5717.2	26.5			G3/7500
FVH (80°-90°)	197.2	0.9			G2/225
BL (0°-30°)	755.6	3.5	B2/1000		
BM (30°-60°)	1199.0	5.6	B2/2500		
BH (60°-80°)	1001.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	112.3	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: P477157

CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0
2.5°	3062.3	3025.4	2988.6	2909.9	2882.9	2809.2	2674.0	2524.1	2401.2	2384.0	2298.0
5°	3799.6	3745.6	3733.3	3689.0	3548.9	3406.4	3185.2	2944.3	2644.5	2666.6	2371.7
7.5°	4352.6	4320.7	4254.3	4212.5	4129.0	3939.7	3711.1	3391.6	3010.7	2937.0	2536.4
10°	4770.4	4726.2	4723.7	4686.9	4642.6	4448.5	4274.0	3843.9	3354.8	3254.0	2737.9
12.5°	4981.8	4974.4	5104.7	5104.7	5087.5	5006.4	4706.5	4313.3	3681.7	3647.2	2971.4
15°	5210.4	5148.9	5262.0	5348.0	5392.2	5434.0	5185.8	4770.4	4099.5	4033.1	3222.1
17.5°	5210.4	5205.4	5318.5	5461.0	5692.1	5746.1	5611.0	5190.7	4446.0	4396.8	3497.3
20°	5121.9	5193.1	5271.8	5463.5	5714.2	5932.9	5972.2	5620.8	4829.4	4790.1	3809.5
22.5°	5534.8	5466.0	5547.1	5620.8	5814.9	6146.7	6254.9	5999.3	5232.5	5082.5	4092.1
25°	6227.8	6181.1	6122.2	6014.0	6095.1	6240.1	6404.8	6279.5	5576.6	5409.4	4364.9
27.5°	6903.7	6906.2	6778.4	6542.4	6367.9	6397.4	6591.6	6525.2	5866.6	5792.8	4551.7
30°	7864.7	7805.7	7663.1	7343.6	7002.0	6721.8	6689.9	6753.8	6235.2	6092.7	4819.6
32.5°	8584.8	8597.1	8395.5	7936.0	7469.0	7240.4	6960.2	6987.3	6468.7	6363.0	5033.4
35°	9167.3	9152.5	9010.0	8629.0	8076.0	7800.8	7422.3	7267.5	7011.9	6844.7	5360.3
37.5°	9796.4	9676.0	9445.0	9014.9	8661.0	8280.0	7911.4	7562.4	7373.1	7171.6	5640.5
40°	10049.6	10049.6	9739.9	9543.3	9123.0	8835.5	8597.1	7950.7	7813.1	7773.7	5999.3
42.5°	9870.2	9980.8	9853.0	9629.3	9457.3	9093.5	9029.6	8353.8	8356.2	8277.6	6429.4
45°	9853.0	9700.6	9594.9	9651.4	9570.3	9550.7	9712.9	8911.7	8926.4	8916.6	7006.9
47.5°	9359.0	9290.2	9447.4	9540.8	9607.2	9912.0	10378.9	9577.7	9683.4	9609.7	7673.0
50°	8867.4	8855.1	8953.4	9292.6	9580.2	10081.5	11013.0	10605.0	10951.6	10946.7	8879.7
52.5°	7520.6	7650.9	8036.7	8754.4	9464.7	10312.6	11492.3	11917.4	12578.6	12758.0	9880.0
55°	6232.8	6163.9	6734.1	7776.2	8960.8	10403.5	12028.0	12706.4	13679.6	13809.9	10907.3
57.5°	4849.1	4976.9	5426.6	6426.9	7918.8	9953.7	12421.3	13485.5	14923.2	15024.0	12099.3
60°	3617.8	3635.0	4129.0	4935.1	6532.6	8938.7	12549.1	14284.2	16348.7	16636.3	13347.8
62.5°	2275.8	2379.1	2755.1	3548.9	4917.9	7518.1	11976.4	14768.4	17843.0	17919.2	14606.2
65°	1226.4	1292.8	1575.4	2074.3	3435.9	5687.1	10457.6	14478.4	18545.9	18998.1	15166.5
67°	906.9	919.2	1049.4	1324.7	2298.0	4281.3	8720.0	13428.9	18865.4	19194.7	15188.7
67.5°	850.4	867.6	970.8	1189.5	2037.4	3942.2	8265.3	13055.4	18722.9	19076.8	15016.6
70°	727.5	732.4	757.0	818.4	1142.8	2371.7	5628.2	10698.4	17353.9	17693.1	13809.9
72.5°	646.4	651.3	661.1	673.4	774.2	1371.4	3423.6	8233.3	15083.0	15623.7	11915.0
75°	567.7	584.9	589.9	580.0	658.7	892.1	1821.2	6050.9	12303.3	12566.3	9265.6
77.5°	481.7	489.1	498.9	508.7	587.4	666.0	874.9	4084.7	8444.7	8284.9	5011.3
80°	405.5	408.0	415.4	422.7	508.7	508.7	496.5	2207.0	3689.0	3526.8	1693.4
82.5°	290.0	307.2	324.4	344.1	422.7	341.6	324.4	983.1	1167.4	1110.9	572.6
85°	113.1	137.6	213.8	235.9	267.9	184.3	216.3	425.2	486.6	481.7	213.8
87.5°	19.7	22.1	59.0	90.9	98.3	63.9	103.2	152.4	181.9	196.6	78.6
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: P477157
 CATALOG NUMBER: IFLD-S-SA6A-830-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0	2207.0
2.5°	2226.7	2150.5	2059.6	1968.6	1909.6	1816.2	1808.9	1752.3	1745.0	1725.3	1735.1
5°	2243.9	2153.0	1968.6	1823.6	1757.3	1703.2	1715.5	1690.9	1683.5	1671.2	1651.6
7.5°	2379.1	2199.7	1924.4	1799.0	1749.9	1725.3	1725.3	1695.8	1673.7	1688.4	1703.2
10°	2467.5	2221.8	1958.8	1833.5	1794.1	1740.1	1759.7	1722.9	1735.1	1705.7	1705.7
12.5°	2610.1	2347.1	2030.1	1885.1	1821.2	1772.0	1791.7	1749.9	1740.1	1742.5	1735.1
15°	2801.8	2430.7	2062.0	1914.6	1870.3	1808.9	1794.1	1757.3	1720.4	1708.1	1722.9
17.5°	2981.2	2533.9	2084.1	1931.8	1860.5	1791.7	1774.5	1727.8	1715.5	1678.6	1649.1
20°	3195.0	2656.8	2113.6	1946.5	1823.6	1754.8	1710.6	1663.9	1622.1	1600.0	1609.8
22.5°	3337.6	2720.7	2128.4	1917.0	1769.6	1705.7	1612.3	1580.3	1521.3	1496.7	1477.1
25°	3571.1	2799.3	2091.5	1835.9	1673.7	1570.5	1486.9	1442.7	1400.9	1368.9	1359.1
27.5°	3630.0	2858.3	2005.5	1698.3	1521.3	1413.2	1341.9	1287.8	1260.8	1211.7	1201.8
30°	3802.1	2799.3	1877.7	1531.2	1376.3	1265.7	1194.4	1155.1	1091.2	1078.9	1051.9
32.5°	3912.7	2816.5	1715.5	1368.9	1209.2	1110.9	1064.2	1024.9	1007.7	948.7	933.9
35°	4097.0	2757.6	1550.8	1219.0	1071.6	995.4	956.1	943.8	887.2	860.2	835.6
37.5°	4215.0	2723.1	1386.1	1049.4	921.6	889.7	902.0	850.4	781.6	729.9	712.7
40°	4421.4	2710.9	1199.4	909.4	818.4	811.0	850.4	752.1	626.7	582.5	557.9
42.5°	4718.8	2627.3	1054.4	784.0	737.3	769.3	776.6	626.7	555.4	518.6	501.4
45°	5003.9	2644.5	911.8	648.8	641.5	688.2	671.0	530.9	489.1	462.0	476.8
47.5°	5552.0	2730.5	771.7	540.7	577.6	621.8	521.0	474.3	435.0	415.4	417.8
50°	6399.9	2814.1	648.8	494.0	545.6	562.8	447.3	430.1	427.6	388.3	385.9
52.5°	6908.6	2782.1	626.7	553.0	584.9	562.8	486.6	474.3	454.7	437.5	417.8
55°	7717.2	2875.5	673.4	646.4	663.6	540.7	545.6	540.7	526.0	481.7	494.0
57.5°	8361.1	2937.0	734.9	722.6	712.7	562.8	570.2	572.6	562.8	543.2	560.4
60°	9245.9	3059.9	798.8	801.2	803.7	612.0	624.3	639.0	636.5	629.2	634.1
62.5°	9789.1	3003.3	870.0	909.4	897.1	712.7	710.3	720.1	720.1	732.4	739.8
65°	9708.0	2794.4	906.9	1005.2	941.3	786.5	786.5	791.4	793.8	818.4	820.9
67°	9221.3	2420.8	887.2	1020.0	941.3	816.0	816.0	820.9	803.7	867.6	847.9
67.5°	8995.2	2310.2	870.0	1007.7	933.9	813.5	813.5	816.0	801.2	862.7	843.0
70°	7822.9	1715.5	749.6	892.1	865.1	791.4	791.4	776.6	764.3	845.5	828.2
72.5°	6677.6	1246.1	602.1	759.4	781.6	761.9	766.8	729.9	695.5	752.1	737.3
75°	5114.5	916.7	469.4	584.9	661.1	712.7	744.7	651.3	607.1	621.8	594.8
77.5°	2853.4	597.2	371.1	432.6	503.8	663.6	715.2	587.4	496.5	479.3	479.3
80°	968.3	349.0	272.8	322.0	346.5	587.4	668.5	476.8	390.8	373.6	361.3
82.5°	366.2	213.8	186.8	221.2	221.2	464.5	545.6	366.2	294.9	380.9	388.3
85°	167.1	127.8	122.9	127.8	127.8	285.1	385.9	238.4	265.4	228.6	201.5
87.5°	66.4	61.4	56.5	54.1	44.2	49.2	132.7	63.9	120.4	32.0	29.5
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)