

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: P476782

Luminaire Tested: **IFLD-L-SA8A-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476782
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

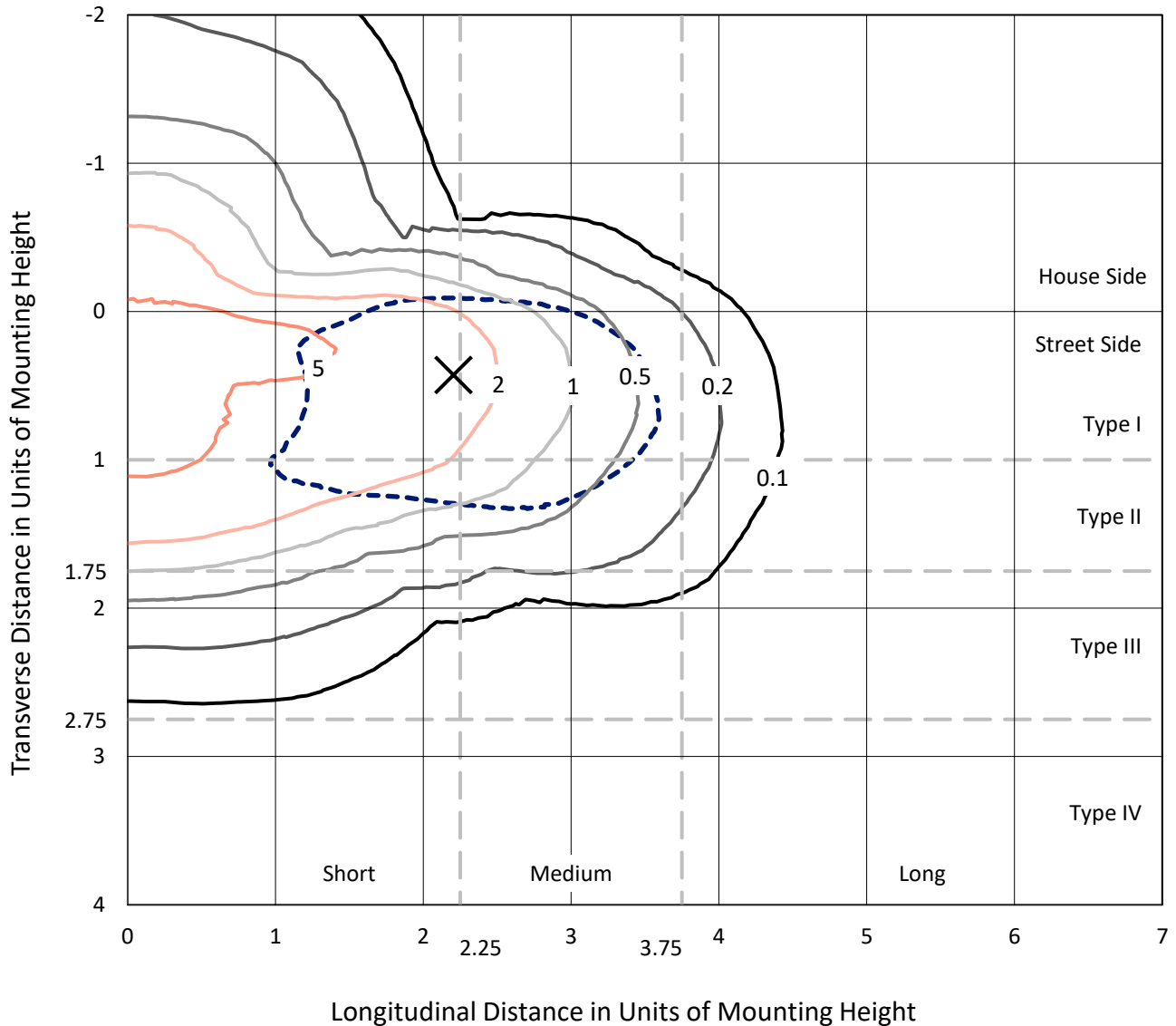
Lumens per Lamp: N/A
Luminaire Lumens: 27187.2 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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: P476782
 CATALOG NUMBER: IFLD-L-SA8A-830-U-T2

Iso-Footcandle Lines of Horizontal Illumination

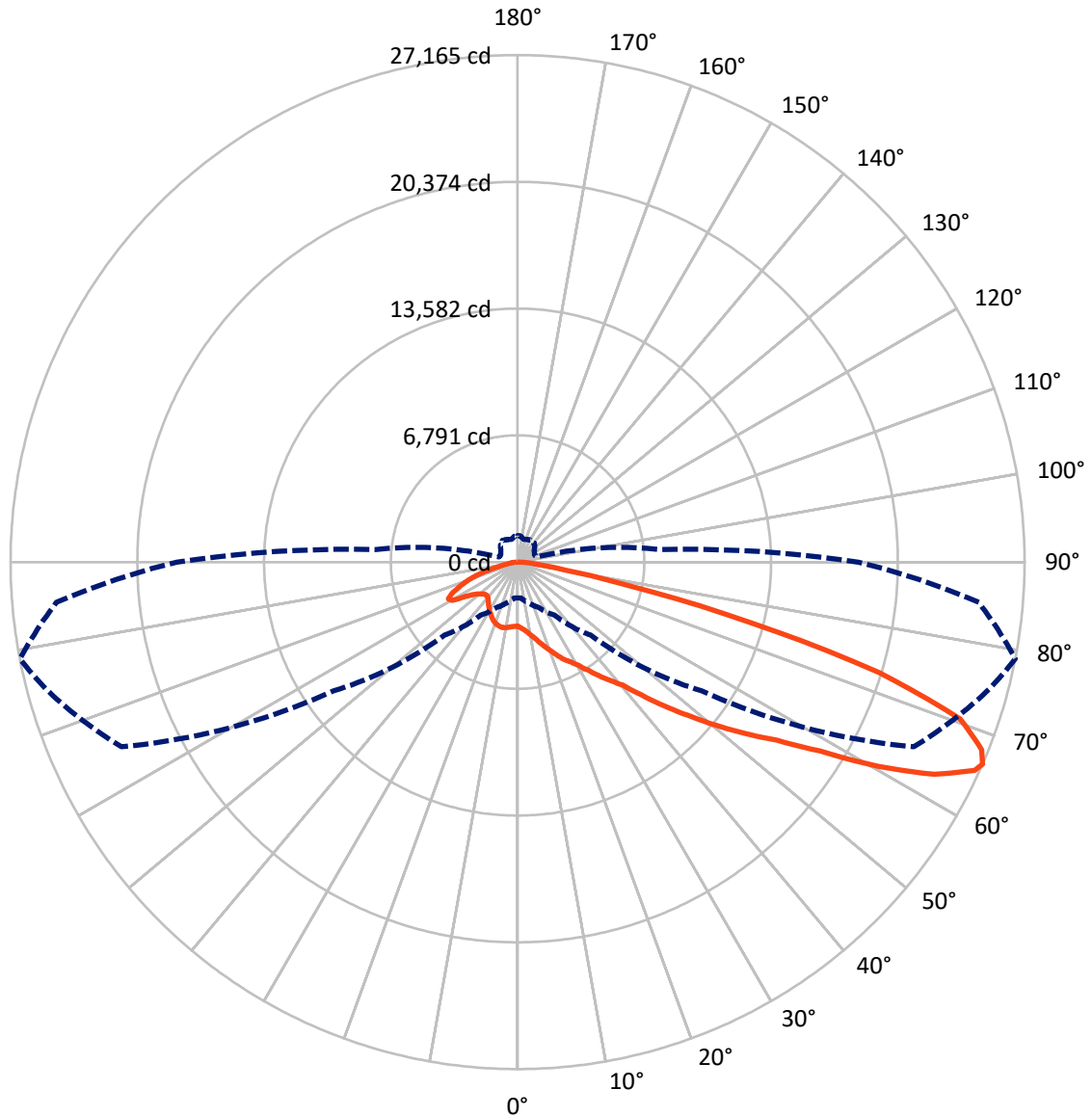
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

REPORT NUMBER: P476782
CATALOG NUMBER: IFLD-L-SA8A-830-U-T2

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: IFLD-L-SA8A-830-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5490.1	0.0	5490.1
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	21697.1	0.0	21697.1
	% Fixture	79.8	0.0	79.8
Total	Lumens	27187.2	0.0	27187.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.6	1.2
10°-20°	1042.4	3.8
20°-30°	1789.3	6.6
30°-40°	2764.1	10.2
40°-50°	4427.4	16.3
50°-60°	6610.4	24.3
60°-70°	6792.1	25.0
70°-80°	3010.9	11.1
80°-90°	413.1	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°	27187.2	100.0
0°-180°	27187.2	100.0

Coefficient of Utilization



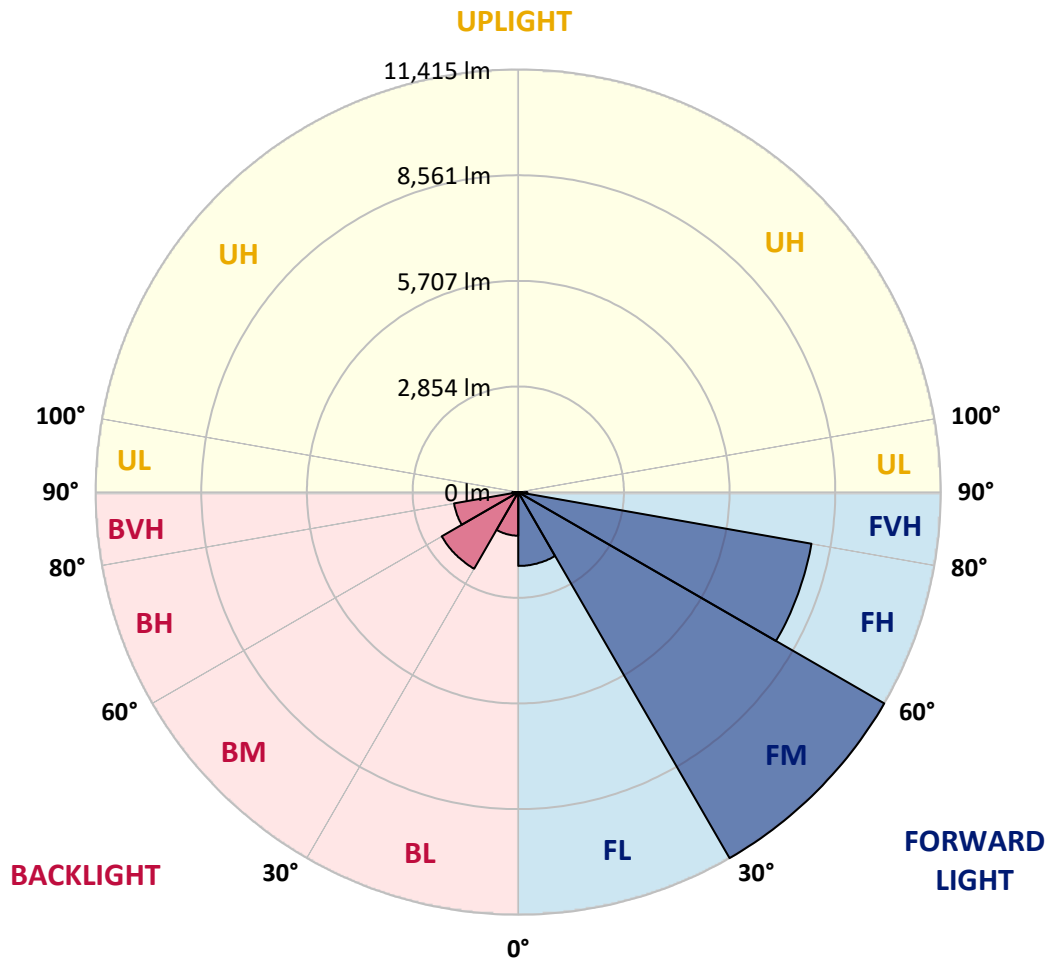
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 CATALOG NUMBER: IFLD-L-SA8A-830-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1993.0	7.3			
FM (30°-60°)	11415.0	42.0			
FH (60°-80°)	8041.4	29.6			G4/12000
FVH (80°-90°)	247.8	0.9			G3/500
BL (0°-30°)	1176.2	4.3	B3/2500		
BM (30°-60°)	2386.8	8.8	B2/2500		
BH (60°-80°)	1761.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	165.3	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-G4

Type II Short





REPORT NUMBER: P476782
 CATALOG NUMBER: IFLD-L-SA8A-830-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0
2.5°	3651.3	3654.3	3654.3	3642.3	3645.3	3654.3	3621.4	3549.6	3549.6	3537.6	3516.7
5°	3875.6	3860.6	3839.7	3842.7	3830.7	3830.7	3794.8	3726.0	3666.2	3642.3	3579.5
7.5°	3905.5	3920.4	3917.4	3953.3	3971.3	3971.3	3989.2	3932.4	3842.7	3785.9	3723.1
10°	3965.3	3926.4	3923.4	4007.1	4034.1	4096.9	4168.6	4138.7	4064.0	3983.2	3899.5
12.5°	4001.2	4025.1	4025.1	4066.9	4129.7	4222.5	4348.0	4404.9	4288.2	4204.5	4075.9
15°	4055.0	4022.1	4117.8	4153.7	4273.3	4339.1	4518.5	4665.0	4587.3	4485.6	4282.3
17.5°	4078.9	4058.0	4111.8	4177.6	4380.9	4479.6	4697.9	4901.3	4835.5	4769.7	4560.4
20°	4201.5	4198.5	4222.5	4276.3	4422.8	4617.2	4889.3	5170.4	5194.3	5074.7	4790.6
22.5°	4500.6	4461.7	4461.7	4440.7	4503.5	4703.9	5071.7	5460.5	5568.1	5427.6	5050.8
25°	4775.7	4829.5	4796.6	4700.9	4677.0	4781.7	5203.3	5768.5	5912.0	5780.5	5403.7
27.5°	5128.5	5146.5	5203.3	5074.7	4910.2	4943.1	5346.8	5941.9	6238.0	6061.5	5604.0
30°	5636.9	5604.0	5592.1	5448.5	5233.2	5188.4	5511.3	6196.1	6665.6	6417.4	5840.3
32.5°	5980.8	6061.5	6058.6	5861.2	5601.0	5502.3	5714.7	6435.3	7123.1	6892.9	6276.9
35°	6662.6	6746.4	6680.6	6390.5	6085.5	5888.1	6007.7	6746.4	7646.5	7467.0	6647.7
37.5°	7532.8	7730.2	7589.6	7054.4	6623.7	6408.4	6414.4	7084.3	8181.7	8035.2	7045.4
40°	8133.9	8400.0	8205.7	7703.3	7245.7	7042.4	6961.7	7485.0	8821.7	8666.2	7667.4
42.5°	8878.5	9099.8	8998.1	8501.7	7966.4	7793.0	7631.5	8154.8	9799.6	9727.8	8465.8
45°	9691.9	9796.6	9763.7	9449.7	8854.6	8794.8	8438.9	9037.0	10950.9	10980.8	9464.6
47.5°	10448.5	10505.3	10568.1	10340.8	9970.0	10020.8	9368.9	9982.0	12069.3	12266.6	10577.1
50°	10642.8	10837.2	10983.8	11136.3	11217.0	11560.9	10394.6	11142.2	13355.1	13737.9	11815.1
52.5°	10445.5	10430.5	10876.1	11354.6	12162.0	12882.7	11791.2	12583.6	14491.5	15248.1	12948.4
55°	9548.4	9518.5	10236.2	10870.1	12446.1	13618.3	13785.8	14503.5	15864.1	16847.9	14482.5
57.5°	7978.4	7793.0	8576.5	9617.1	11830.0	13699.0	15789.3	17353.3	17975.3	19096.7	16824.0
60°	5361.8	5284.0	6034.6	7275.7	9605.2	12553.7	16988.5	20920.9	20950.8	22212.7	20457.4
62.5°	3301.4	3316.4	3797.8	4727.8	6725.4	9952.1	16471.1	23770.7	23776.7	25041.6	23447.8
65°	2159.1	2168.0	2556.8	3071.1	4201.5	6749.3	13621.3	23995.0	25741.4	26916.6	24817.4
66°	1922.8	1925.8	2260.7	2679.4	3480.8	5523.3	12030.4	23411.9	26184.0	27164.8	24799.4
67.5°	1620.8	1659.7	1928.8	2251.8	2715.3	3968.3	9545.4	21725.3	25956.7	26817.9	24237.2
70°	1267.9	1288.9	1501.2	1830.1	2036.5	2296.6	5672.8	17709.2	23758.8	25155.3	22191.8
72.5°	1016.7	1034.7	1196.2	1486.2	1653.7	1513.1	3089.1	12849.8	18767.8	20257.0	17455.0
75°	858.2	861.2	939.0	1169.2	1360.6	1136.4	1644.7	8247.5	12042.4	12736.1	10693.7
77.5°	693.8	705.7	759.6	891.1	1094.5	894.1	980.9	4620.2	6046.6	6097.4	4943.1
80°	565.2	571.2	604.1	648.9	834.3	660.9	663.9	2254.8	2592.7	2532.9	2009.6
82.5°	445.6	451.6	490.4	481.5	613.0	472.5	412.7	1085.5	1193.2	1169.2	924.0
85°	251.2	251.2	385.8	385.8	388.8	299.0	251.2	511.4	631.0	589.1	433.6
87.5°	80.7	83.7	116.6	122.6	194.4	134.6	122.6	191.4	299.0	263.2	155.5
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°	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0	3433.0
2.5°	3504.8	3456.9	3436.0	3367.2	3349.3	3304.4	3283.5	3256.5	3247.6	3208.7	3244.6
5°	3531.7	3516.7	3433.0	3346.3	3280.5	3250.6	3205.7	3145.9	3139.9	3086.1	3080.1
7.5°	3645.3	3594.5	3447.9	3355.2	3223.7	3148.9	3050.2	3020.3	2981.4	2963.5	3002.4
10°	3821.7	3693.1	3474.8	3241.6	3080.1	2990.4	2918.6	2897.7	2900.7	2888.7	2870.8
12.5°	3947.3	3824.7	3430.0	3145.9	2936.6	2849.9	2843.9	2864.8	2897.7	2882.7	2903.7
15°	4126.8	3896.5	3397.1	2987.4	2820.0	2796.0	2793.0	2855.8	2852.8	2852.8	2849.9
17.5°	4294.2	3968.3	3277.5	2849.9	2697.3	2715.3	2736.2	2733.2	2763.1	2775.1	2796.0
20°	4506.5	4052.0	3110.0	2712.3	2604.6	2598.7	2595.7	2598.7	2628.6	2646.5	2631.6
22.5°	4691.9	4069.9	2969.5	2580.7	2494.0	2470.1	2431.2	2470.1	2455.1	2461.1	2479.0
25°	4853.4	4072.9	2769.1	2482.0	2383.4	2329.5	2299.6	2296.6	2269.7	2266.7	2266.7
27.5°	4988.0	3971.3	2592.7	2344.5	2251.8	2200.9	2197.9	2165.1	2096.3	2051.4	2057.4
30°	5092.7	3893.5	2470.1	2224.9	2135.1	2126.2	2099.3	2024.5	1934.8	1878.0	1878.0
32.5°	5278.1	3738.0	2302.6	2102.3	2057.4	2045.4	1982.6	1916.8	1833.1	1779.3	1770.3
35°	5415.6	3594.5	2192.0	1997.6	1976.7	1952.7	1898.9	1827.1	1803.2	1791.3	1800.2
37.5°	5571.1	3433.0	2057.4	1907.9	1928.8	1884.0	1821.2	1788.3	1872.0	1851.1	1860.0
40°	5819.3	3319.3	1925.8	1854.1	1875.0	1824.1	1743.4	1731.4	1836.1	1761.3	1743.4
42.5°	6273.9	3316.4	1845.1	1773.3	1788.3	1749.4	1677.6	1671.6	1713.5	1623.8	1596.9
45°	6839.1	3421.0	1785.3	1713.5	1701.5	1695.6	1671.6	1644.7	1608.8	1492.2	1462.3
47.5°	7514.9	3591.5	1773.3	1623.8	1638.7	1689.6	1659.7	1590.9	1498.2	1423.4	1408.5
50°	8334.3	3944.3	1743.4	1558.0	1584.9	1665.7	1641.7	1546.0	1462.3	1414.5	1405.5
52.5°	9240.3	4389.9	1704.5	1456.3	1516.1	1644.7	1656.7	1567.0	1444.4	1402.5	1396.5
55°	10307.9	5047.8	1659.7	1345.7	1435.4	1623.8	1656.7	1507.2	1420.4	1420.4	1414.5
57.5°	12416.2	6232.0	1567.0	1244.0	1363.6	1584.9	1608.8	1510.2	1423.4	1423.4	1411.5
60°	15508.2	8080.1	1390.5	1166.3	1294.8	1531.1	1573.0	1465.3	1390.5	1408.5	1405.5
62.5°	17927.5	8642.3	1241.0	1091.5	1226.1	1432.4	1525.1	1417.5	1351.7	1417.5	1423.4
65°	18444.8	8074.1	1088.5	1010.8	1130.4	1336.7	1456.3	1348.7	1294.8	1423.4	1429.4
66°	18259.4	7631.5	1034.7	986.8	1088.5	1288.9	1414.5	1324.7	1264.9	1417.5	1420.4
67.5°	17434.1	6967.6	974.9	936.0	1031.7	1220.1	1366.6	1291.9	1217.1	1399.5	1372.6
70°	15639.8	5909.0	873.2	846.3	950.9	1106.4	1256.0	1208.1	1142.3	1288.9	1241.0
72.5°	12045.3	4721.8	765.5	768.5	858.2	989.8	1145.3	1112.4	1055.6	1130.4	1100.5
75°	7335.5	3017.3	666.9	672.8	747.6	879.2	1040.7	1016.7	948.0	989.8	974.9
77.5°	3250.6	1495.2	562.2	574.2	634.0	774.5	906.1	867.2	795.4	804.4	798.4
80°	1262.0	708.7	457.5	472.5	511.4	619.0	750.6	714.7	651.9	639.9	634.0
82.5°	607.1	394.7	352.9	358.8	373.8	493.4	645.9	601.1	517.3	463.5	463.5
85°	305.0	245.2	248.2	227.3	248.2	334.9	436.6	364.8	302.0	269.1	275.1
87.5°	122.6	122.6	122.6	104.7	110.6	158.5	203.3	137.6	125.6	74.8	74.8
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)