

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: P480682

Luminaire Tested: **IFLD-L-SA8A-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480682
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-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

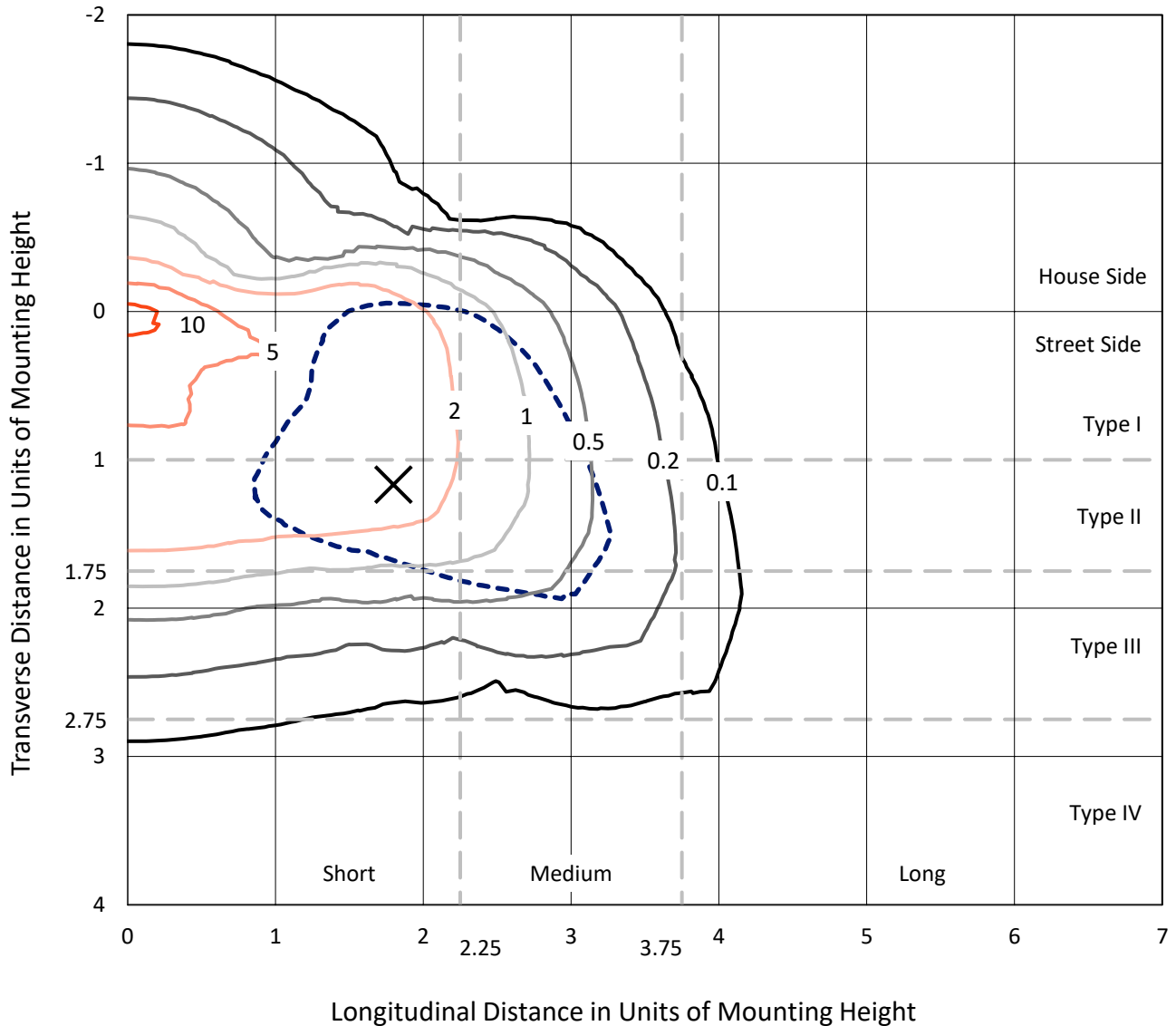
Lumens per Lamp: N/A
Luminaire Lumens: 26858.7 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

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: P480682
 CATALOG NUMBER: IFLD-L-SA8A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

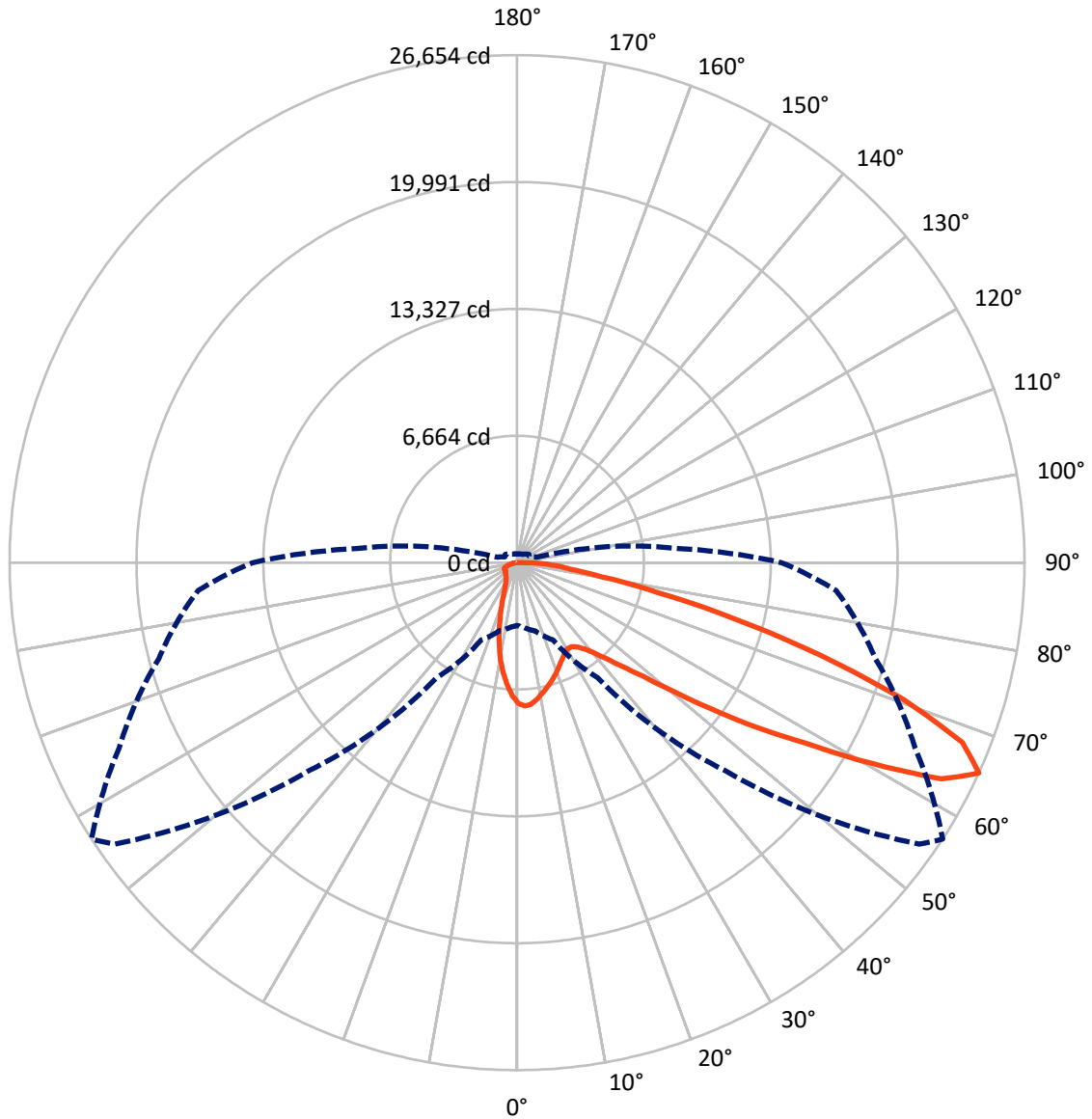
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc
 Type III - Short - N/A

REPORT NUMBER: P480682
CATALOG NUMBER: IFLD-L-SA8A-830-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P480682
 CATALOG NUMBER: IFLD-L-SA8A-830-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4119.0	0.0	4119.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	22739.7	0.0	22739.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	26858.7	0.0	26858.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	618.5	2.3
10°-20°	1331.1	5.0
20°-30°	1721.0	6.4
30°-40°	2315.9	8.6
40°-50°	3692.8	13.7
50°-60°	6522.4	24.3
60°-70°	7175.5	26.7
70°-80°	3001.6	11.2
80°-90°	479.7	1.8
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°	26858.7	100.0
0°-180°	26858.7	100.0

Coefficient of Utilization



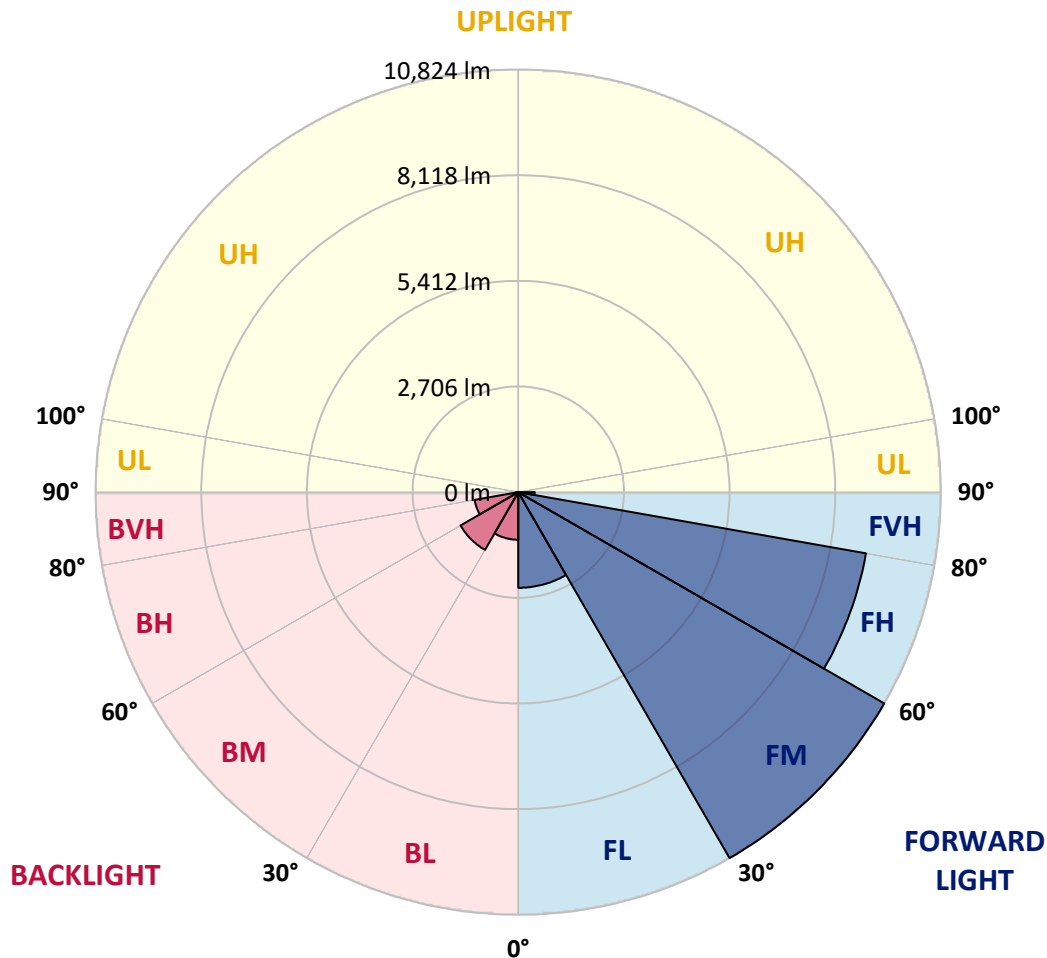
REPORT NUMBER: P480682
 CATALOG NUMBER: IFLD-L-SA8A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.8	9.1			
FM (30°-60°)	10824.0	40.3			
FH (60°-80°)	9041.4	33.7			G4/12000
FVH (80°-90°)	423.4	1.6			G3/500
BL (0°-30°)	1219.9	4.5	B3/2500		
BM (30°-60°)	1707.1	6.4	B2/2500		
BH (60°-80°)	1135.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	56.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P480682

CATALOG NUMBER: IFLD-L-SA8A-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8
2.5°	7585.2	7597.3	7597.3	7621.5	7539.9	7579.2	7573.1	7536.9	7548.9	7485.5	7422.0
5°	7370.6	7361.6	7409.9	7416.0	7479.4	7497.6	7512.7	7488.5	7494.5	7355.5	7295.1
7.5°	6820.6	6817.6	6899.2	6968.7	7101.7	7225.6	7307.2	7283.0	7316.3	7228.6	7086.6
10°	6167.9	6237.4	6322.0	6391.5	6636.3	6793.4	7005.0	7026.1	7153.1	7131.9	6875.0
12.5°	5678.3	5708.6	5772.0	5971.5	6195.1	6455.0	6757.2	6784.4	6908.3	6968.7	6745.1
15°	5276.4	5303.6	5385.2	5533.3	5784.1	6092.3	6476.1	6545.6	6793.4	6814.6	6575.9
17.5°	4983.3	5004.4	5058.8	5206.9	5412.4	5808.3	6170.9	6294.8	6621.2	6723.9	6400.6
20°	4868.4	4823.1	4853.3	4947.0	5152.5	5457.7	5926.1	6034.9	6452.0	6654.4	6234.4
22.5°	4817.1	4777.8	4795.9	4789.9	4953.1	5170.6	5663.2	5778.1	6291.8	6572.8	6086.3
25°	4856.3	4856.3	4838.2	4823.1	4841.2	4983.3	5379.2	5557.5	6077.2	6503.3	5935.2
27.5°	5067.9	4986.3	4995.4	4931.9	4913.8	4913.8	5252.2	5358.0	6007.7	6464.0	5811.3
30°	5203.9	5243.2	5246.2	5152.5	5058.8	4889.6	5134.4	5237.1	5950.3	6512.4	5738.8
32.5°	5551.4	5533.3	5481.9	5463.8	5324.8	5134.4	5191.8	5261.3	5917.1	6621.2	5759.9
35°	5898.9	5889.9	5892.9	5883.8	5738.8	5457.7	5345.9	5439.6	5977.5	6811.6	5832.5
37.5°	6258.6	6282.7	6385.5	6385.5	6231.4	5926.1	5778.1	5750.9	6198.1	7122.8	6004.7
40°	6618.2	6678.6	6808.6	7014.1	6796.5	6512.4	6273.7	6231.4	6464.0	7539.9	6418.7
42.5°	6962.7	7062.4	7319.3	7624.5	7552.0	7267.9	6950.6	6902.2	7011.0	8159.4	6995.9
45°	7403.9	7488.5	7893.5	8361.9	8461.6	8210.8	7839.1	7799.8	7793.7	9066.0	7790.7
47.5°	8074.8	8165.4	8570.4	9041.8	9350.1	9389.3	8972.3	8930.0	8784.9	10289.9	8954.2
50°	8914.9	9063.0	9404.5	9954.5	10401.7	10821.8	10703.9	10580.0	10295.9	11713.3	10428.9
52.5°	9528.4	9709.7	10172.0	10876.2	11664.9	12332.8	12755.8	12755.8	12103.1	13275.6	12202.8
55°	9691.5	9800.3	10383.6	11402.0	12752.8	14442.1	15327.6	15261.1	14254.8	14919.6	14266.8
57.5°	9041.8	9183.8	9891.0	10957.8	13324.0	16415.5	17881.1	17896.3	16605.9	16829.5	16303.7
60°	7252.8	7298.1	8132.2	9558.6	12774.0	18005.1	21368.5	21426.0	19280.3	18530.9	17340.2
62.5°	5013.5	5158.5	5787.1	7038.2	10583.0	17826.8	24732.0	25016.1	21422.9	19428.4	17503.4
65°	3300.0	3387.7	3723.1	4484.6	7367.6	15451.5	25777.6	26654.0	23060.9	19479.8	16820.4
67.5°	2393.4	2408.5	2508.3	2901.1	4427.2	11111.9	23991.6	25227.6	23674.3	19050.7	15218.8
70°	1934.1	1946.2	1982.4	2233.3	2858.8	6953.6	19567.4	21504.5	21833.9	17016.9	12257.2
72.5°	1571.4	1586.5	1631.9	1867.6	2357.2	3868.2	14309.2	16669.3	17760.3	12589.6	8147.3
75°	1236.0	1248.1	1356.9	1589.6	2215.1	2656.3	9492.1	11803.9	11952.0	7358.6	3813.8
77.5°	846.2	867.3	1000.3	1347.8	2085.2	2323.9	5917.1	7561.0	6784.4	2880.0	1311.5
80°	537.9	568.1	646.7	1021.4	1843.4	2218.1	3680.8	4514.9	2970.6	985.2	631.6
82.5°	317.3	347.5	426.1	661.8	1447.5	2058.0	2592.9	2825.6	1393.1	504.7	380.8
85°	175.3	196.4	256.9	398.9	849.2	1828.3	2076.1	2027.8	797.8	269.0	238.7
87.5°	57.4	66.5	93.7	160.2	350.6	861.3	1245.1	1169.5	414.0	123.9	93.7
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: P480682
 CATALOG NUMBER: IFLD-L-SA8A-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8	7385.8
2.5°	7379.7	7370.6	7234.7	7131.9	6956.6	6811.6	6754.2	6675.6	6672.6	6615.1	6600.0
5°	7201.4	7107.7	6899.2	6699.8	6388.5	6180.0	5989.6	5856.6	5802.2	5684.4	5657.2
7.5°	6971.7	6847.8	6527.5	6152.8	5787.1	5460.7	5164.6	4868.4	4702.2	4644.8	4581.3
10°	6733.0	6515.4	6041.0	5620.9	5110.2	4608.5	4143.2	3726.1	3499.5	3339.3	3269.8
12.5°	6542.6	6252.5	5648.1	5019.5	4345.6	3674.7	3133.8	2695.6	2438.8	2317.9	2263.5
15°	6328.1	5944.3	5219.0	4424.2	3584.1	2822.5	2293.7	1949.2	1846.4	1789.0	1780.0
17.5°	6101.4	5657.2	4753.6	3837.9	2840.7	2124.5	1783.0	1644.0	1598.6	1574.5	1562.4
20°	5889.9	5400.3	4276.1	3185.2	2224.2	1704.4	1544.2	1471.7	1468.7	1480.8	1477.8
22.5°	5590.7	5064.9	3804.7	2580.8	1776.9	1483.8	1381.1	1362.9	1381.1	1396.2	1402.2
25°	5421.5	4789.9	3278.9	2048.9	1468.7	1317.6	1284.3	1278.3	1305.5	1323.6	1320.6
27.5°	5246.2	4505.8	2789.3	1640.9	1287.4	1199.7	1193.7	1199.7	1226.9	1254.1	1251.1
30°	5110.2	4279.1	2330.0	1372.0	1148.4	1115.1	1109.1	1115.1	1130.2	1133.2	1133.2
32.5°	4998.4	4010.2	1940.1	1190.7	1063.7	1036.5	1042.6	1039.6	1042.6	1045.6	1048.6
35°	4931.9	3850.0	1619.8	1078.9	994.2	973.1	970.1	961.0	964.0	967.0	964.0
37.5°	5073.9	3771.5	1365.9	1000.3	945.9	927.8	921.7	915.7	906.6	906.6	906.6
40°	5288.5	3729.1	1211.8	948.9	909.6	888.5	870.3	864.3	864.3	867.3	870.3
42.5°	5714.6	3798.6	1106.1	909.6	864.3	840.1	822.0	825.0	834.1	843.1	837.1
45°	6331.1	4010.2	1057.7	879.4	837.1	803.9	791.8	788.7	797.8	812.9	825.0
47.5°	7138.0	4339.6	1039.6	852.2	819.0	773.6	758.5	767.6	779.7	800.8	791.8
50°	8458.6	5080.0	1054.7	828.0	791.8	758.5	740.4	731.3	740.4	755.5	761.5
52.5°	10184.1	6424.8	1112.1	815.9	773.6	746.4	716.2	701.1	710.2	722.3	722.3
55°	12248.1	8262.1	1272.3	800.8	743.4	728.3	695.1	664.8	670.9	670.9	667.9
57.5°	14067.4	9649.2	1462.6	779.7	725.3	704.1	661.8	625.6	619.5	622.5	625.6
60°	14883.3	10017.9	1553.3	773.6	725.3	673.9	616.5	580.2	571.2	565.1	565.1
62.5°	14741.3	9380.3	1369.0	746.4	743.4	649.7	574.2	534.9	522.8	510.7	513.7
65°	13883.0	8470.7	1078.9	710.2	746.4	634.6	531.9	492.6	471.4	456.3	453.3
67.5°	12314.6	7231.6	855.2	683.0	716.2	607.4	495.6	450.3	432.1	417.0	411.0
70°	9634.1	5669.3	743.4	646.7	643.7	540.9	453.3	414.0	386.8	368.7	368.7
72.5°	6246.5	3584.1	637.6	574.2	556.0	453.3	392.9	368.7	347.5	332.4	332.4
75°	2828.6	1665.1	513.7	480.5	453.3	362.6	332.4	320.3	302.2	287.1	287.1
77.5°	1015.4	710.2	383.8	377.7	338.5	281.0	269.0	259.9	247.8	232.7	232.7
80°	568.1	450.3	287.1	275.0	235.7	208.5	193.4	193.4	187.4	178.3	175.3
82.5°	359.6	293.1	211.5	184.3	154.1	139.0	133.0	129.9	126.9	114.8	111.8
85°	226.6	199.5	139.0	108.8	90.7	69.5	66.5	63.5	57.4	51.4	51.4
87.5°	102.7	114.8	54.4	33.2	24.2	15.1	9.1	3.0	0.0	0.0	0.0
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)