

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: P484194

Luminaire Tested: **IFLD-L-SA8C-830-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484194
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

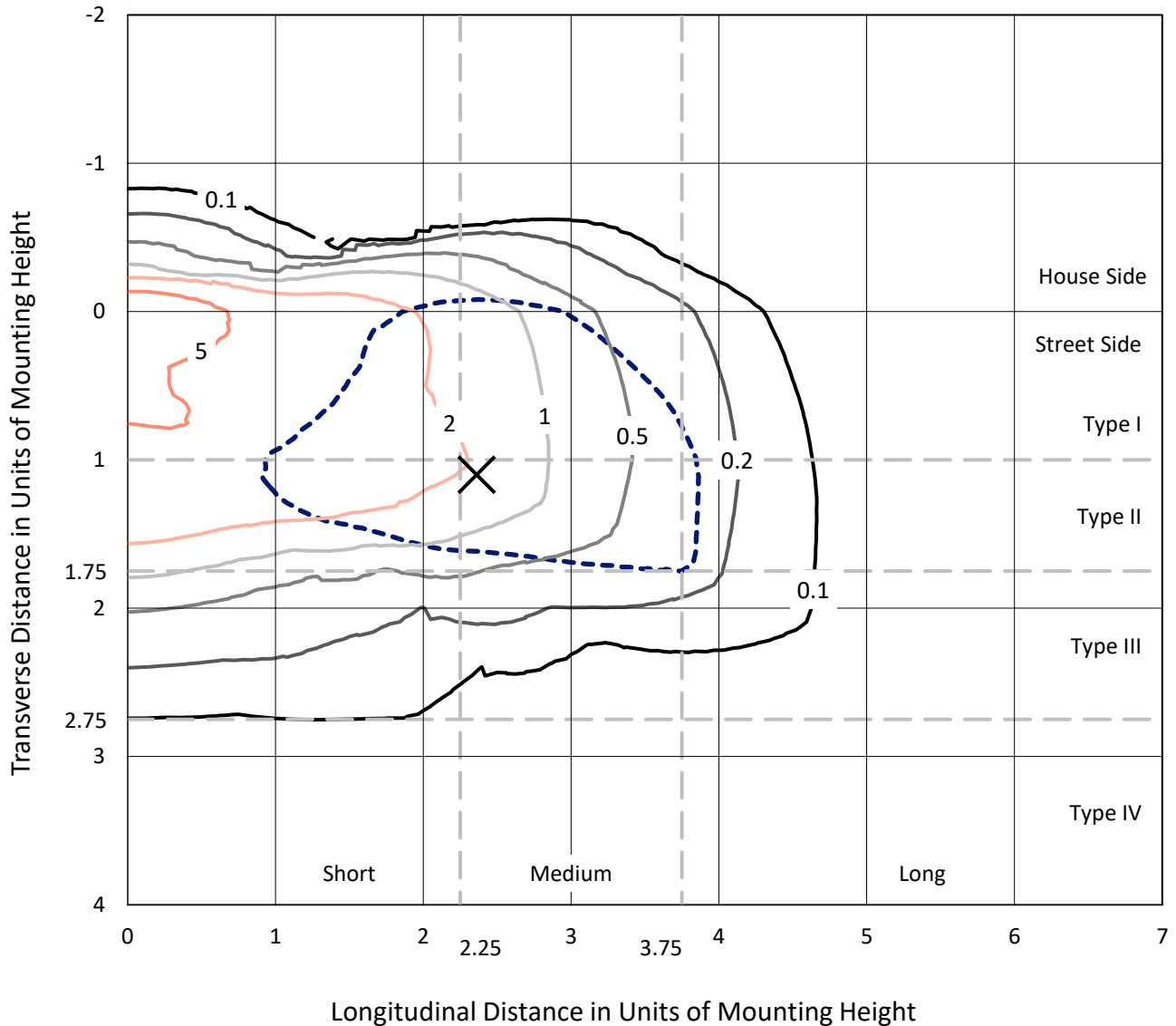
Lumens per Lamp: N/A
Luminaire Lumens: 33134.1 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 420.3
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: P484194
 CATALOG NUMBER: IFLD-L-SA8C-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

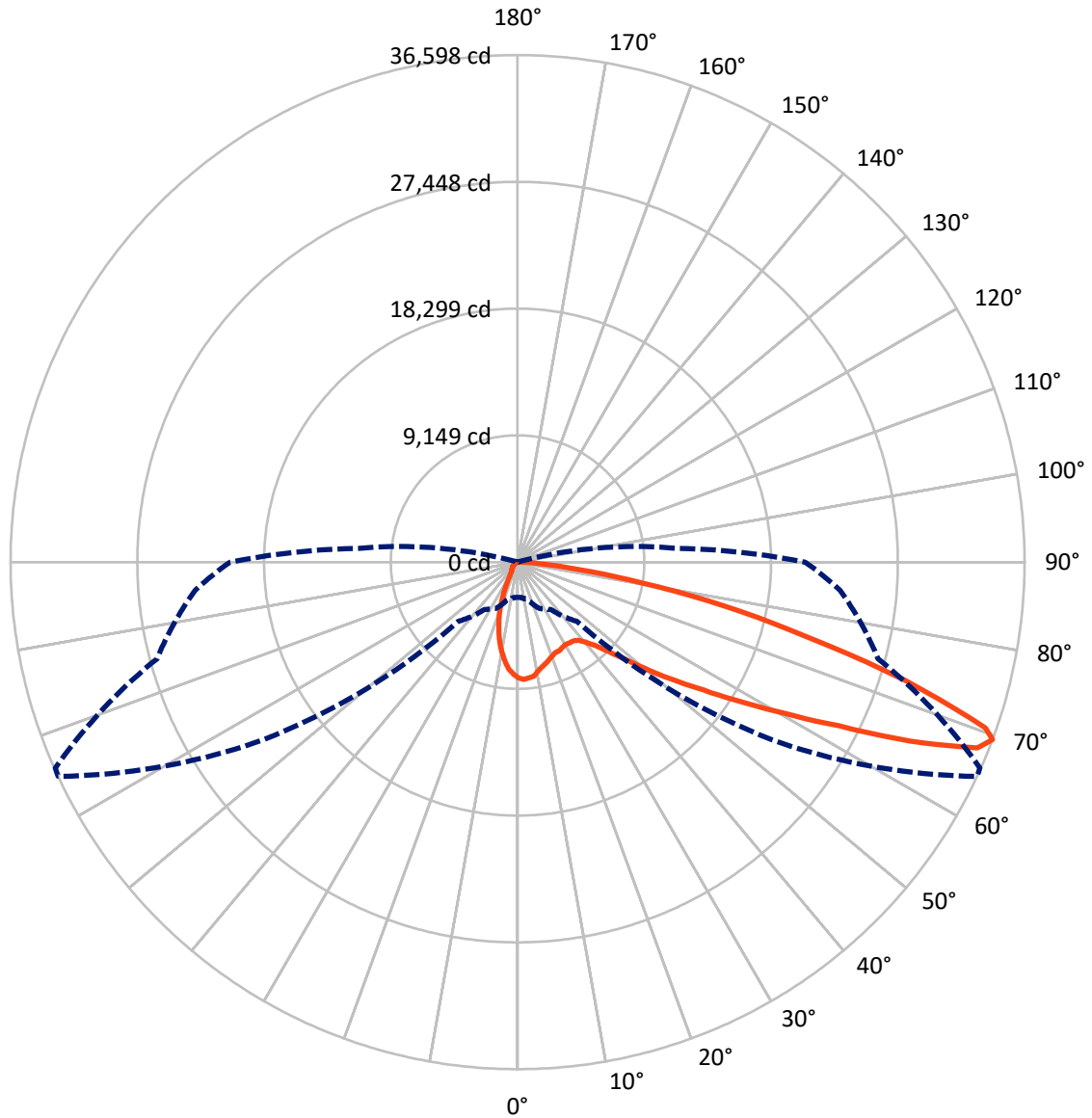
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P484194
CATALOG NUMBER: IFLD-L-SA8C-830-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P484194

CATALOG NUMBER: IFLD-L-SA8C-830-U-SL2-HSS

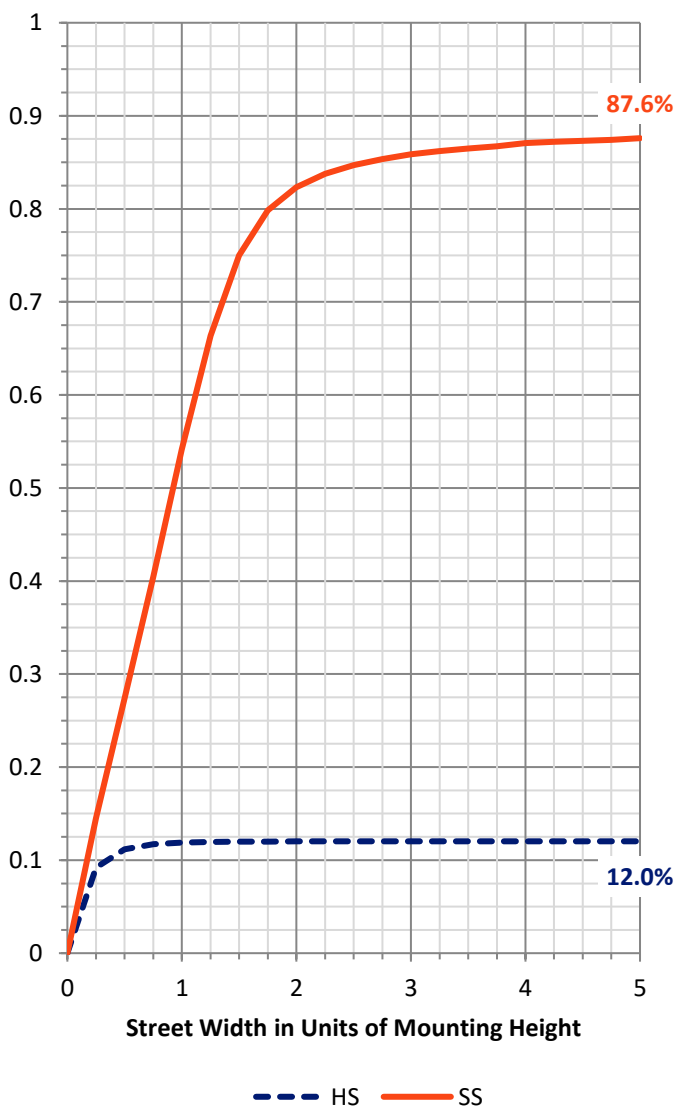
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4019.4	0.0	4019.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	29114.7	0.0	29114.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	33134.1	0.0	33134.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	683.6	2.1
10°-20°	1495.7	4.5
20°-30°	2082.4	6.3
30°-40°	2951.0	8.9
40°-50°	4650.6	14.0
50°-60°	7546.4	22.8
60°-70°	8427.8	25.4
70°-80°	4745.8	14.3
80°-90°	550.7	1.7
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°	33134.1	100.0
0°-180°	33134.1	100.0

Coefficient of Utilization



REPORT NUMBER: P484194

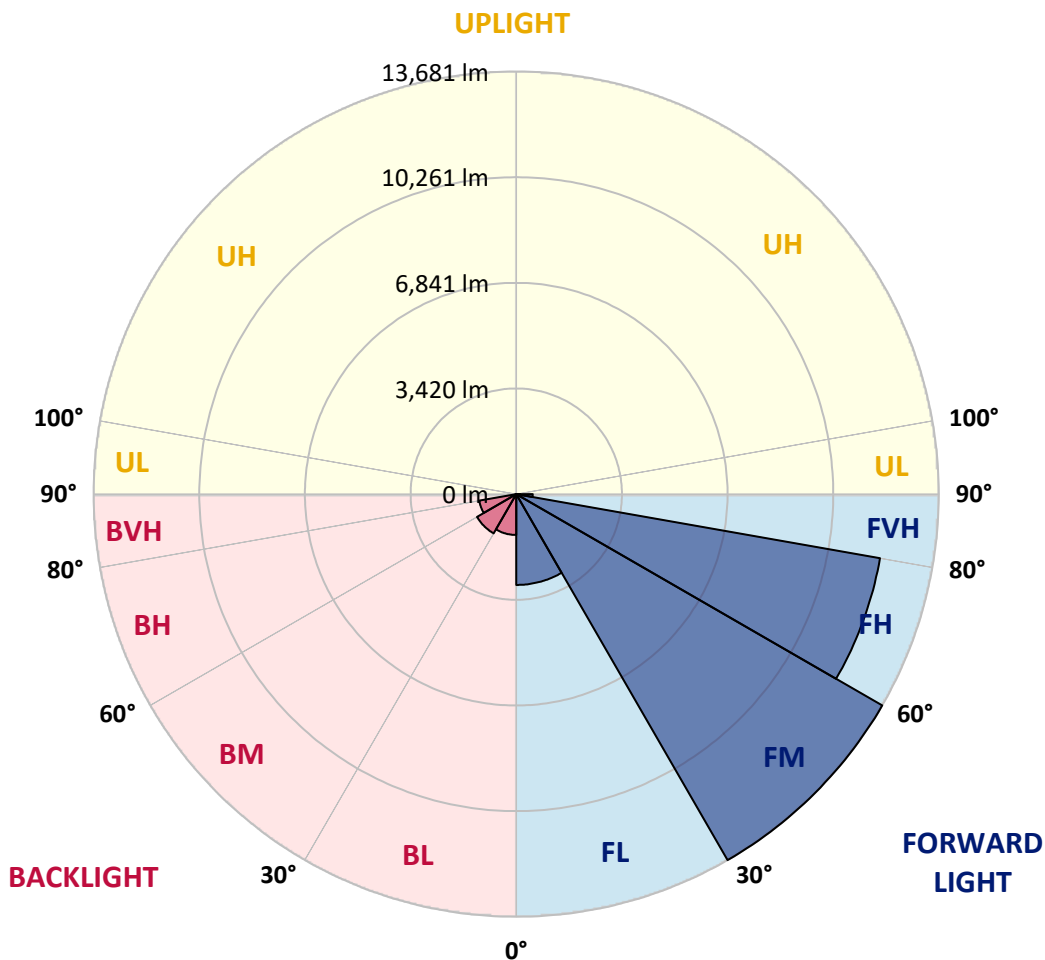
CATALOG NUMBER: IFLD-L-SA8C-830-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2940.3	8.9			
FM (30°-60°)	13681.4	41.3			
FH (60°-80°)	11957.5	36.1			G4/12000
FVH (80°-90°)	535.5	1.6			G4/750
BL (0°-30°)	1321.5	4.0	B3/2500		
BM (30°-60°)	1466.6	4.4	B2/2500		
BH (60°-80°)	1216.1	3.7	B3/2500		G3/2500
BVH (80°-90°)	15.2	0.0			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 II Medium





REPORT NUMBER: P484194

CATALOG NUMBER: IFLD-L-SA8C-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9
2.5°	8045.5	8108.0	8125.9	8188.5	8219.8	8353.9	8429.9	8474.6	8452.2	8501.4	8505.8
5°	7473.3	7437.6	7531.5	7598.5	7741.5	7974.0	8210.8	8394.1	8479.0	8559.5	8546.1
7.5°	6861.0	6843.1	6937.0	7089.0	7218.6	7500.2	7880.1	8331.5	8313.7	8510.3	8568.4
10°	6440.8	6458.7	6490.0	6642.0	6834.2	7120.2	7594.0	8014.2	8108.0	8523.7	8639.9
12.5°	6056.5	6087.7	6145.8	6302.3	6525.8	6820.8	7281.1	7772.8	7915.8	8447.7	8680.2
15°	5931.3	5859.8	5976.0	6092.2	6324.6	6588.3	6977.2	7589.6	7652.1	8358.3	8747.2
17.5°	5828.5	5783.8	5837.4	5931.3	6177.1	6391.7	6758.2	7392.9	7509.1	8322.6	8738.3
20°	5859.8	5819.6	5841.9	5913.4	6025.2	6226.3	6566.0	7205.2	7330.3	8157.2	8724.9
22.5°	5949.2	5980.5	5940.2	5958.1	5993.9	6096.7	6463.2	7071.1	7178.3	8125.9	8800.8
25°	6351.5	6297.8	6244.2	6221.8	6011.8	6056.5	6431.9	7062.1	7138.1	8014.2	8738.3
27.5°	6771.6	6726.9	6704.6	6574.9	6288.9	6154.8	6436.4	6937.0	7039.8	7969.5	8662.3
30°	7281.1	7339.3	7249.9	7093.4	6695.6	6364.9	6485.5	6874.4	7017.4	7799.6	8613.1
32.5°	7817.5	7848.8	7893.5	7777.3	7263.3	6682.2	6633.0	6932.5	6941.5	7799.6	8501.4
35°	8425.4	8380.7	8496.9	8505.8	8054.4	7245.4	6914.6	6972.7	7066.6	7763.9	8461.2
37.5°	8948.3	9024.3	9158.4	9373.0	8908.1	8041.0	7352.7	7160.5	7200.7	7929.3	8492.4
40°	9520.5	9596.5	9900.4	10114.9	9851.2	8934.9	8018.7	7598.5	7629.8	8175.1	8653.3
42.5°	10150.7	10298.2	10660.2	11035.7	10964.2	10070.2	8876.8	8242.1	8228.7	8787.4	8984.1
45°	11004.4	11201.1	11594.4	12028.0	12090.6	11370.9	10021.1	9203.1	9247.8	9587.5	9668.0
47.5°	12193.4	12184.4	12568.8	13051.5	13413.6	12720.8	11388.8	10494.9	10490.4	10852.4	10682.6
50°	13342.1	13346.5	13449.3	14008.1	14946.7	14593.6	13082.8	12211.2	12162.1	12340.9	12068.2
52.5°	13874.0	13811.4	13735.4	14410.3	16126.7	16953.6	15228.3	14155.6	14115.3	14008.1	13936.5
55°	13315.3	13337.6	13333.1	14034.9	16748.0	19443.2	17981.6	16296.5	16229.5	15894.3	15992.6
57.5°	11522.9	11451.4	11607.8	12702.9	16037.3	21141.7	21919.4	18996.2	18821.9	17709.0	17485.5
60°	8577.4	8599.7	8729.3	10021.1	14271.8	21499.3	25687.4	22165.3	21414.4	18987.3	18678.9
62.5°	5989.4	5944.7	5993.9	6718.0	10204.3	20069.0	28235.1	26018.2	25294.1	20440.0	20261.2
65°	4286.4	4228.3	4425.0	4867.5	6128.0	15344.5	28597.2	31149.4	30501.3	22759.7	22330.6
67.5°	3084.1	3075.2	3303.1	4107.7	4353.5	8836.6	25915.3	35797.9	35404.5	25513.1	23591.1
69°	2552.2	2556.7	2775.7	3678.6	4156.8	6034.1	22299.4	36597.9	36526.4	26934.4	23354.2
70°	2225.9	2243.8	2498.6	3423.8	4076.4	4961.4	19224.2	35811.3	35739.8	27211.6	22572.0
72.5°	1372.2	1385.6	1720.8	2744.4	3875.2	4049.6	11496.1	29298.9	29544.7	25942.2	19447.7
75°	657.0	661.5	902.9	1984.5	3736.7	3839.5	6159.3	21620.0	22138.4	20945.0	15197.0
77.5°	348.6	348.6	433.6	1054.9	3026.0	3611.5	3656.2	15250.6	15679.7	13243.7	8639.9
80°	174.3	178.8	263.7	549.8	1877.3	3540.0	2856.1	9095.8	9328.3	5403.9	2690.8
82.5°	67.0	71.5	125.2	330.8	974.4	2990.2	2507.5	4474.2	4416.1	1264.9	657.0
85°	8.9	8.9	44.7	196.7	415.7	1318.6	2069.5	1868.3	1805.8	277.1	317.3
87.5°	0.0	0.0	8.9	58.1	125.2	384.4	800.1	514.0	572.1	76.0	156.4
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: P484194

CATALOG NUMBER: IFLD-L-SA8C-830-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9	8353.9
2.5°	8483.5	8389.6	8246.6	8108.0	7960.5	7781.8	7585.1	7513.6	7388.4	7379.5	7451.0
5°	8474.6	8322.6	8072.3	7777.3	7357.1	7039.8	6695.6	6445.3	6253.1	6128.0	6159.3
7.5°	8519.3	8336.0	7902.4	7267.7	6726.9	6096.7	5564.8	5198.3	4863.0	4697.7	4679.8
10°	8447.7	8201.9	7567.2	6677.7	5882.1	5001.6	4223.9	3732.2	3231.6	3048.3	3057.3
12.5°	8488.0	8143.8	7205.2	6069.9	4974.8	3830.5	2900.8	2230.4	1761.1	1609.1	1591.2
15°	8514.8	8018.7	6856.5	5341.3	3969.1	2610.3	1680.6	1264.9	1117.4	1090.6	1086.1
17.5°	8412.0	7866.7	6364.9	4621.7	2941.1	1586.7	1117.4	1032.5	1005.7	987.8	978.9
20°	8407.5	7777.3	5940.2	3884.2	1962.2	1081.7	965.5	934.2	893.9	880.5	880.5
22.5°	8331.5	7589.6	5430.7	3075.2	1251.5	929.7	867.1	818.0	773.3	755.4	750.9
25°	8309.2	7370.5	4952.4	2310.8	952.0	831.4	768.8	697.3	643.6	616.8	603.4
27.5°	8246.6	7182.8	4469.7	1627.0	831.4	742.0	661.5	585.5	523.0	482.7	478.3
30°	8023.1	6986.1	3933.3	1126.4	755.4	657.0	567.7	478.3	415.7	388.9	379.9
32.5°	7929.3	6802.9	3347.8	867.1	688.3	581.1	478.3	397.8	348.6	321.8	317.3
35°	7817.5	6534.7	2780.2	755.4	625.8	505.1	402.3	335.2	295.0	272.7	272.7
37.5°	7830.9	6320.2	2248.3	683.9	558.7	433.6	344.2	286.1	250.3	228.0	228.0
40°	7790.7	6150.3	1747.7	621.3	496.1	371.0	290.5	241.4	210.1	187.7	183.3
42.5°	7974.0	6105.6	1318.6	567.7	433.6	317.3	250.3	205.6	174.3	147.5	147.5
45°	8282.4	6177.1	1028.0	518.5	371.0	272.7	214.5	169.8	138.6	120.7	116.2
47.5°	9104.8	6458.7	804.5	478.3	317.3	236.9	178.8	138.6	111.7	93.9	89.4
50°	10298.2	7089.0	683.9	420.2	268.2	201.1	147.5	107.3	89.4	71.5	67.0
52.5°	11996.7	8148.3	621.3	371.0	223.5	165.4	116.2	84.9	67.0	53.6	49.2
55°	13847.1	9471.3	563.2	312.9	187.7	134.1	93.9	67.0	49.2	35.8	31.3
57.5°	15290.9	10615.5	514.0	259.2	152.0	107.3	71.5	49.2	35.8	22.3	17.9
60°	16868.7	11420.1	451.4	205.6	125.2	80.5	53.6	35.8	26.8	13.4	13.4
62.5°	18495.6	12363.2	371.0	160.9	98.3	62.6	40.2	26.8	17.9	4.5	4.5
65°	20757.3	13100.7	286.1	125.2	76.0	44.7	31.3	22.3	8.9	0.0	0.0
67.5°	21396.5	12738.7	210.1	98.3	53.6	31.3	22.3	13.4	4.5	0.0	0.0
69°	20757.3	11473.7	183.3	84.9	44.7	26.8	17.9	8.9	4.5	0.0	0.0
70°	19590.7	10490.4	160.9	71.5	40.2	26.8	13.4	8.9	4.5	0.0	0.0
72.5°	16385.9	8045.5	125.2	53.6	31.3	22.3	13.4	8.9	0.0	0.0	0.0
75°	12019.0	4970.3	93.9	40.2	26.8	17.9	13.4	8.9	0.0	0.0	0.0
77.5°	6440.8	1814.7	67.0	26.8	17.9	13.4	13.4	8.9	0.0	0.0	0.0
80°	1765.5	536.4	49.2	17.9	13.4	8.9	8.9	4.5	0.0	0.0	0.0
82.5°	482.7	138.6	31.3	17.9	13.4	8.9	4.5	0.0	0.0	0.0	0.0
85°	259.2	53.6	17.9	13.4	8.9	4.5	0.0	0.0	0.0	0.0	0.0
87.5°	134.1	17.9	13.4	8.9	8.9	4.5	0.0	0.0	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)