

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: P484507

Luminaire Tested: **IFLD-L-SA8D-760-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484507
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-760-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (128) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

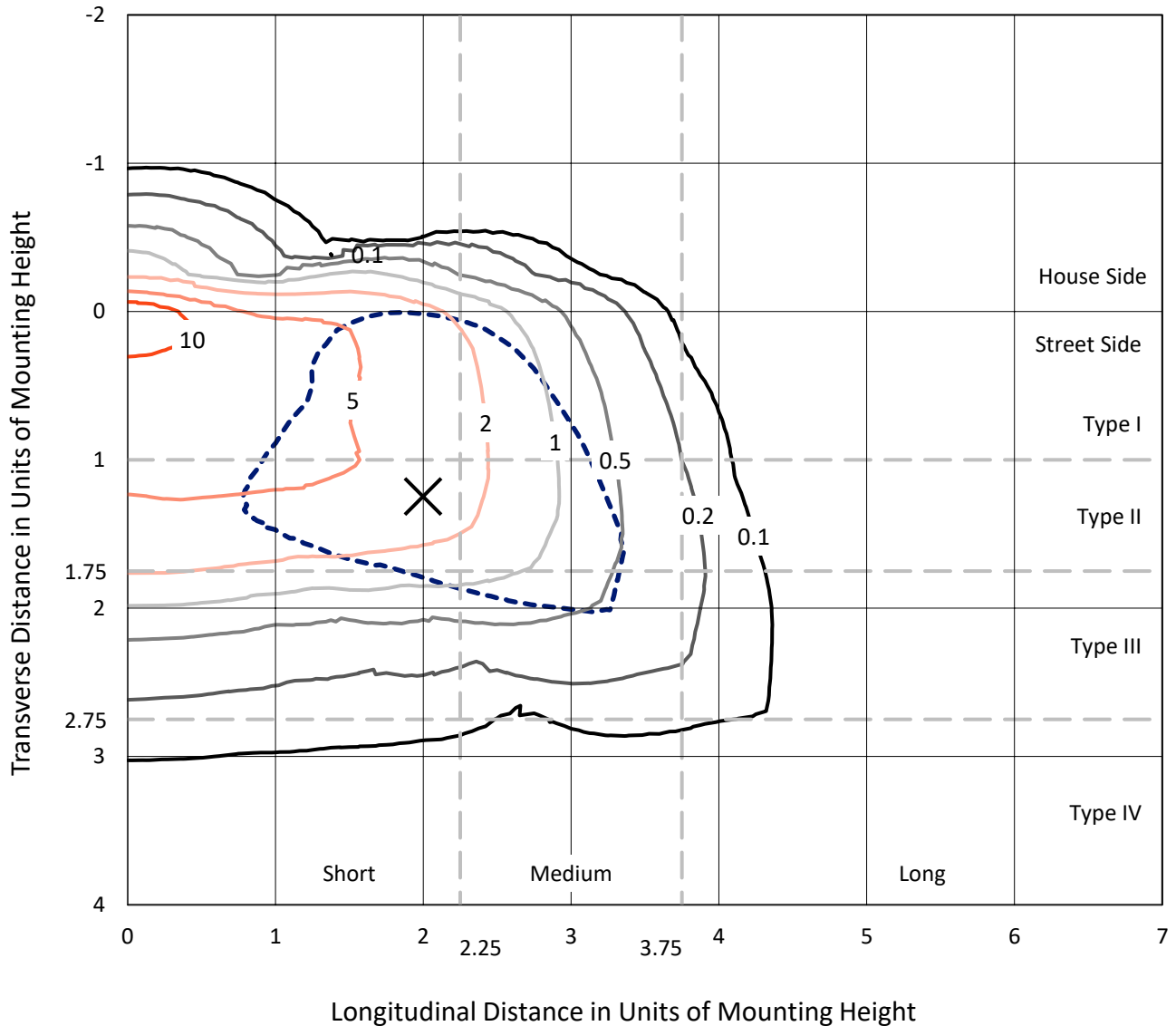
Lumens per Lamp: N/A
Luminaire Lumens: 47689.1 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 488.3
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

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Iso-Footcandle Lines of Horizontal Illumination

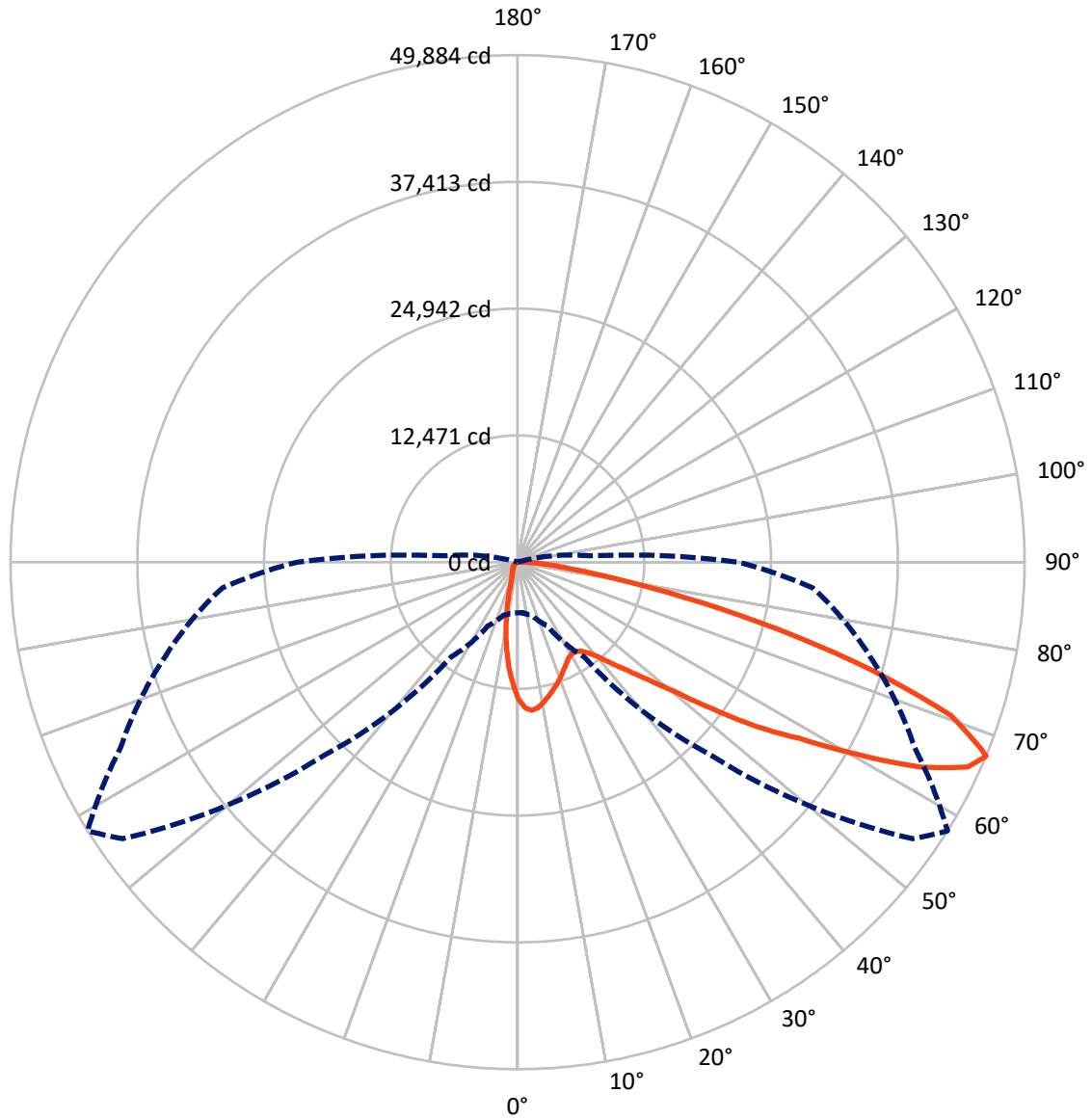
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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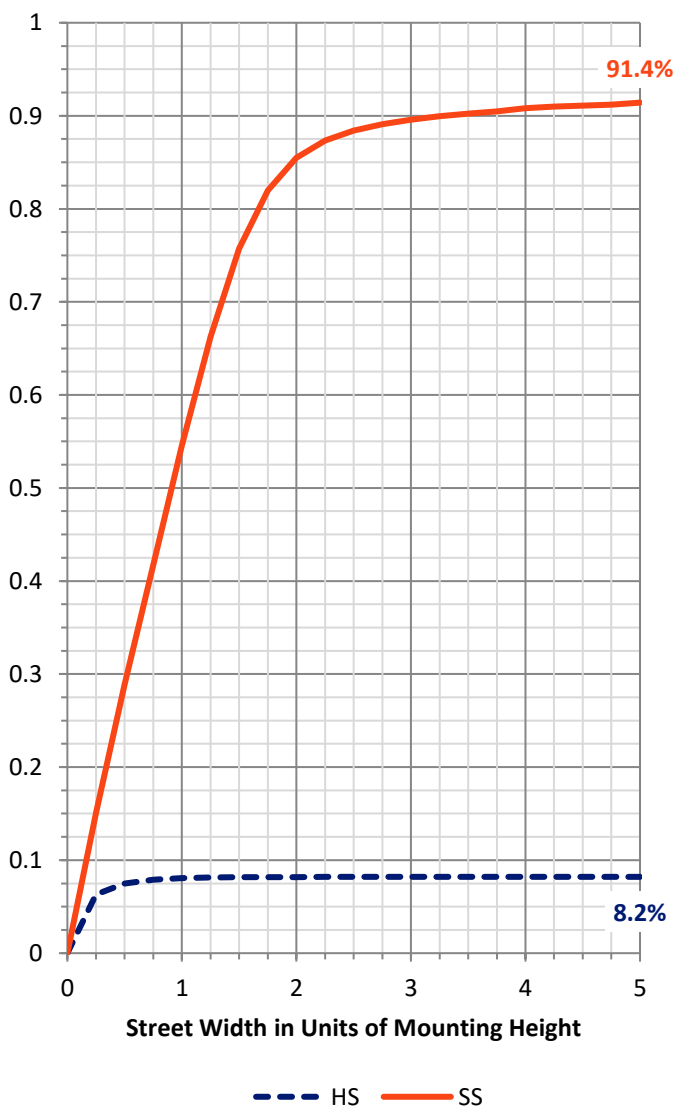
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3941.8	0.0	3941.8
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	43747.3	0.0	43747.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	47689.1	0.0	47689.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1072.0	2.2
10°-20°	2223.6	4.7
20°-30°	2950.2	6.2
30°-40°	4088.1	8.6
40°-50°	6670.6	14.0
50°-60°	11724.7	24.6
60°-70°	12986.1	27.2
70°-80°	5381.4	11.3
80°-90°	592.4	1.2
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°	47689.1	100.0
0°-180°	47689.1	100.0

Coefficient of Utilization



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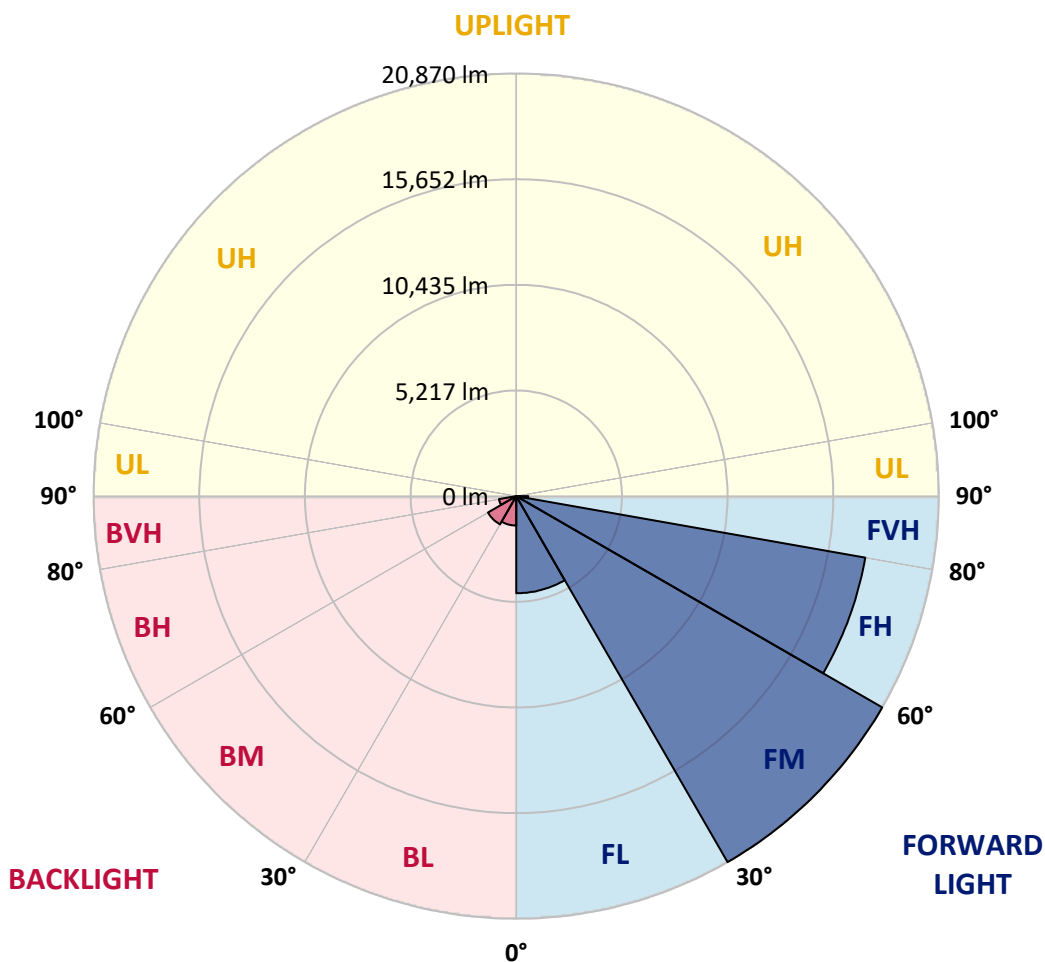
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4794.1	10.1			
FM (30°-60°)	20869.7	43.8			
FH (60°-80°)	17500.8	36.7			G5
FVH (80°-90°)	582.6	1.2			G4/750
BL (0°-30°)	1451.8	3.0	B3/2500		
BM (30°-60°)	1613.6	3.4	B2/2500		
BH (60°-80°)	866.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	9.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0
2.5°	14701.3	14751.9	14796.2	14713.9	14783.6	14682.3	14422.7	14365.7	14321.4	13935.2	13713.6
5°	14694.9	14637.9	14682.3	14720.3	14625.3	14701.3	14637.9	14644.3	14473.3	14125.1	13504.6
7.5°	13713.6	13688.3	13713.6	13897.2	14106.1	14270.7	14365.7	14460.7	14346.7	13827.5	13226.1
10°	12390.3	12517.0	12586.6	12915.8	13238.7	13542.6	13840.2	14017.5	13985.8	13776.9	12922.2
12.5°	11466.0	11428.0	11681.2	11896.5	12219.4	12833.5	13352.7	13517.3	13707.2	13416.0	12523.3
15°	10611.2	10509.9	10661.9	11035.4	11586.3	12073.8	12801.9	13048.8	13289.4	13365.4	12308.0
17.5°	9794.5	9845.2	10003.4	10339.0	10858.2	11541.9	12225.7	12580.3	13156.4	13055.1	11985.1
20°	9402.0	9509.6	9566.6	9737.5	10098.4	10782.2	11801.5	12086.4	12700.6	13048.8	11668.6
22.5°	9421.0	9421.0	9288.0	9389.3	9718.5	10250.4	11225.4	11541.9	12517.0	12719.6	11383.7
25°	9623.6	9496.9	9503.3	9383.0	9522.3	9813.5	10706.2	11092.4	12143.4	12751.2	11231.7
27.5°	9775.5	9750.2	9712.2	9680.5	9503.3	9547.6	10364.3	10680.9	11997.8	12713.2	10997.5
30°	10326.3	10212.4	10174.4	10104.7	9870.5	9655.2	10092.1	10491.0	11883.8	12801.9	10864.5
32.5°	10788.5	10807.5	10839.2	10636.6	10434.0	9902.1	10168.1	10484.6	11801.5	13004.5	10997.5
35°	11371.0	11453.3	11466.0	11402.7	11187.4	10661.9	10484.6	10756.9	11940.8	13365.4	11010.1
37.5°	12257.4	12168.7	12409.3	12434.7	12282.7	11586.3	11219.1	11326.7	12352.4	13941.5	11491.3
40°	12833.5	12941.2	13390.7	13669.3	13409.7	12776.5	12282.7	12263.7	12947.5	14846.9	12086.4
42.5°	13473.0	13713.6	14207.4	14808.9	14777.2	14188.4	13688.3	13605.9	14004.8	16157.5	13029.8
45°	14346.7	14562.0	15252.1	16157.5	16651.3	16151.1	15397.7	15233.1	15290.1	17942.9	14637.9
47.5°	15796.6	15739.6	16733.6	17626.3	18436.7	18050.5	17727.6	17246.4	17202.1	20044.9	16860.2
50°	17436.4	17423.7	18310.1	19323.1	20260.1	21013.6	20475.4	19949.9	19962.6	22900.3	19475.1
52.5°	18993.9	19240.8	20196.8	21203.5	22811.6	23622.1	24141.2	23932.3	22925.6	25451.8	22273.5
55°	19816.9	20032.2	20981.9	22716.7	25255.5	27338.5	28744.1	28566.8	26623.1	28326.2	25033.9
57.5°	19038.2	19183.8	20469.1	22742.0	26965.0	31612.1	32960.7	32739.1	30447.2	30523.2	28370.5
60°	15777.6	16005.5	17917.6	20583.0	26300.2	34904.4	38766.5	38430.9	33929.4	33302.6	30516.8
62.5°	10927.8	11079.8	12649.9	15967.5	23147.2	36050.4	44249.4	44433.0	37601.6	35467.9	31156.3
65°	7078.4	7065.7	7964.8	10212.4	16404.4	32580.8	47491.0	48630.7	41147.1	35797.1	30960.0
67°	5001.7	4982.7	5406.9	6926.4	11358.3	26844.7	47434.0	49884.3	43071.8	35892.1	29142.9
67.5°	4615.5	4596.5	5001.7	6369.3	10250.4	24964.3	46724.9	49238.5	43749.2	35759.1	28345.2
70°	3583.5	3532.9	3684.8	4387.6	5970.4	16144.8	39988.4	45230.8	42343.7	32441.5	22634.4
72.5°	2589.5	2646.5	2887.1	3602.5	4685.2	8686.5	30478.8	36575.9	35366.6	24451.5	14384.7
75°	1804.4	1855.1	2241.3	2937.7	4298.9	5267.6	20608.4	26528.1	24635.1	13498.3	6128.7
77.5°	943.4	1006.7	1430.9	2348.9	3906.4	4077.4	12314.4	16822.2	13055.1	4805.5	1690.5
80°	436.9	468.5	715.4	1665.1	3266.9	3583.5	7179.7	9357.7	5223.3	1076.3	582.5
82.5°	189.9	208.9	329.2	956.0	2317.3	3134.0	4444.6	4906.8	1893.1	348.2	360.9
85°	38.0	44.3	126.6	506.5	1120.6	1899.4	3121.3	2912.4	949.7	170.9	284.9
87.5°	0.0	0.0	31.7	145.6	303.9	563.5	1323.2	1323.2	291.2	88.6	107.6
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°	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0	13511.0
2.5°	13517.3	13289.4	12789.2	12327.0	11997.8	11624.3	11130.4	10908.8	10826.5	10712.5	10541.6
5°	13162.8	12884.2	12029.5	11168.4	10225.0	9509.6	8749.8	8306.7	7971.1	7762.2	7692.5
7.5°	12662.6	12092.8	10940.5	9560.3	8338.3	7274.7	6122.4	5343.6	4843.4	4640.8	4450.9
10°	12263.7	11523.0	9769.2	8053.4	6426.3	4868.8	3570.8	2887.1	2367.9	2171.6	2146.3
12.5°	11744.5	10858.2	8673.9	6514.9	4469.9	2899.7	1975.4	1715.8	1570.2	1544.8	1525.8
15°	11314.0	10256.7	7635.5	5046.0	2893.4	1810.7	1538.5	1475.2	1437.2	1424.5	1430.9
17.5°	11022.8	9610.9	6571.9	3672.2	1905.7	1481.5	1418.2	1380.2	1361.2	1354.9	1335.9
20°	10446.6	9066.4	5520.9	2570.5	1487.9	1367.6	1316.9	1285.3	1266.3	1259.9	1253.6
22.5°	10117.4	8376.3	4469.9	1791.8	1323.2	1240.9	1202.9	1177.6	1146.0	1127.0	1120.6
25°	9788.2	7869.8	3532.9	1392.9	1202.9	1146.0	1089.0	1057.3	1006.7	981.4	975.0
27.5°	9402.0	7369.6	2722.5	1209.3	1082.7	1025.7	968.7	918.0	854.7	829.4	816.7
30°	9180.4	6882.1	2051.3	1082.7	994.0	918.0	848.4	785.1	715.4	671.1	658.5
32.5°	9066.4	6438.9	1538.5	987.7	899.0	816.7	728.1	652.1	588.8	550.8	544.5
35°	8927.1	6008.4	1209.3	899.0	810.4	721.8	633.1	557.2	493.8	462.2	449.5
37.5°	9072.7	5755.1	1006.7	829.4	740.8	639.5	544.5	468.5	417.9	386.2	379.9
40°	9471.6	5546.2	873.7	766.1	671.1	563.5	474.8	398.9	354.6	329.2	316.6
42.5°	10085.8	5546.2	791.4	702.8	607.8	493.8	405.2	348.2	303.9	278.6	272.2
45°	11200.1	5717.2	721.8	639.5	531.8	424.2	348.2	291.2	246.9	221.6	215.3
47.5°	12763.9	6109.7	664.8	582.5	474.8	373.5	303.9	246.9	202.6	177.3	170.9
50°	14865.9	7002.4	607.8	512.8	424.2	322.9	253.3	196.3	158.3	133.0	126.6
52.5°	17487.0	8268.7	550.8	474.8	360.9	272.2	202.6	158.3	120.3	101.3	95.0
55°	20260.1	9819.8	481.2	424.2	310.2	227.9	164.6	120.3	88.6	76.0	69.6
57.5°	23052.2	11016.5	424.2	367.2	253.3	183.6	133.0	95.0	63.3	50.7	44.3
60°	24533.8	11130.4	367.2	303.9	202.6	145.6	101.3	69.6	44.3	31.7	25.3
62.5°	24761.7	10117.4	316.6	246.9	164.6	114.0	69.6	50.7	25.3	12.7	12.7
65°	23590.4	8433.3	272.2	196.3	126.6	82.3	50.7	31.7	12.7	6.3	0.0
67°	21691.0	7065.7	234.3	164.6	101.3	63.3	38.0	19.0	6.3	0.0	0.0
67.5°	20956.6	6685.8	221.6	152.0	95.0	57.0	31.7	19.0	6.3	0.0	0.0
70°	16265.1	4773.8	164.6	107.6	69.6	44.3	25.3	12.7	0.0	0.0	0.0
72.5°	9965.5	2792.1	126.6	76.0	50.7	31.7	19.0	6.3	0.0	0.0	0.0
75°	4178.7	962.4	107.6	57.0	38.0	19.0	12.7	6.3	0.0	0.0	0.0
77.5°	1089.0	360.9	76.0	38.0	25.3	19.0	12.7	6.3	0.0	0.0	0.0
80°	443.2	164.6	50.7	25.3	25.3	19.0	12.7	6.3	0.0	0.0	0.0
82.5°	291.2	76.0	31.7	25.3	19.0	12.7	6.3	0.0	0.0	0.0	0.0
85°	221.6	44.3	19.0	19.0	12.7	6.3	0.0	0.0	0.0	0.0	0.0
87.5°	95.0	25.3	19.0	12.7	12.7	0.0	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)