

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: P484000

Luminaire Tested: **IFLD-L-SA8D-735-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484000
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-735-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

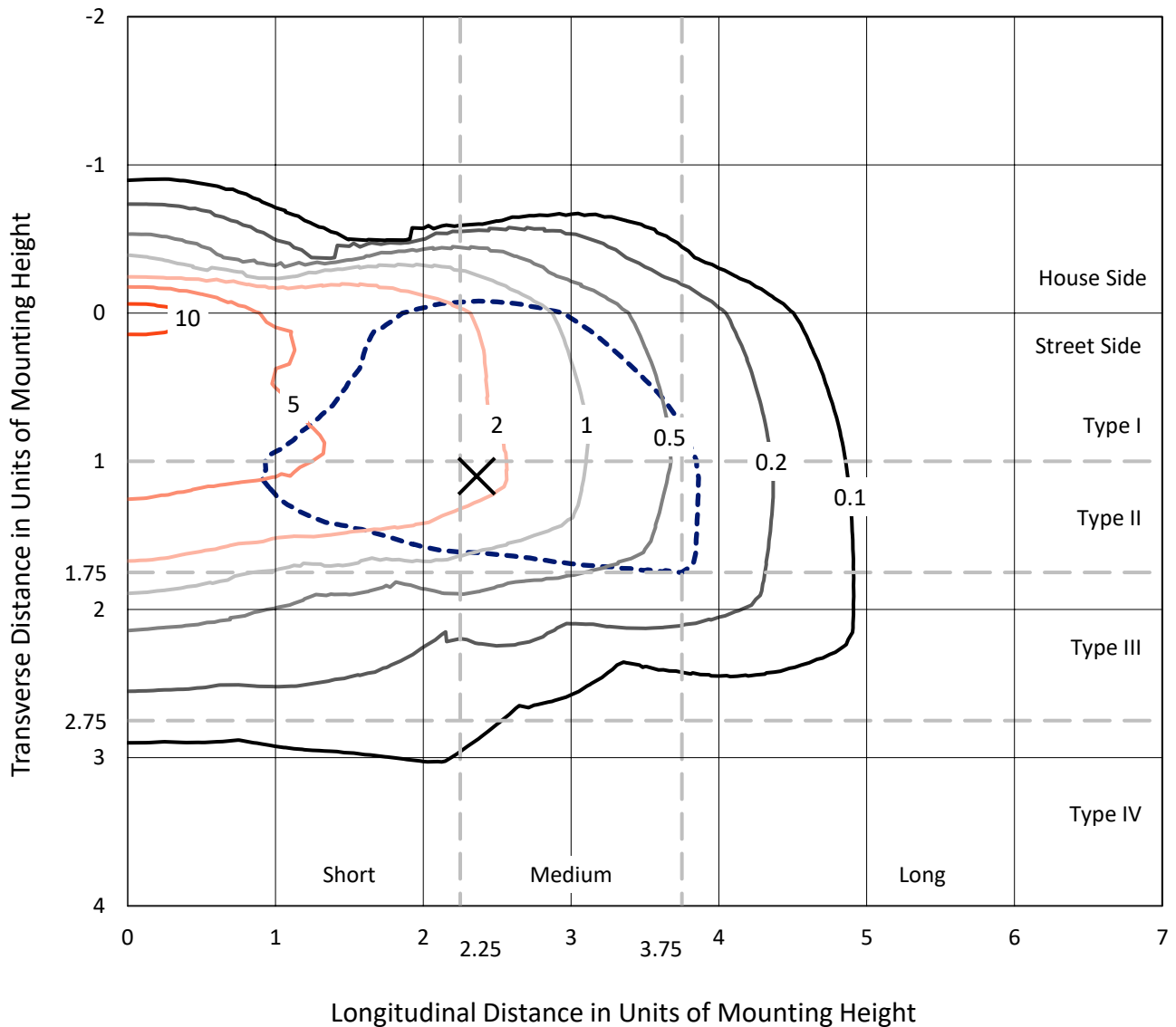
Lumens per Lamp: N/A
Luminaire Lumens: 45254.6 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

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

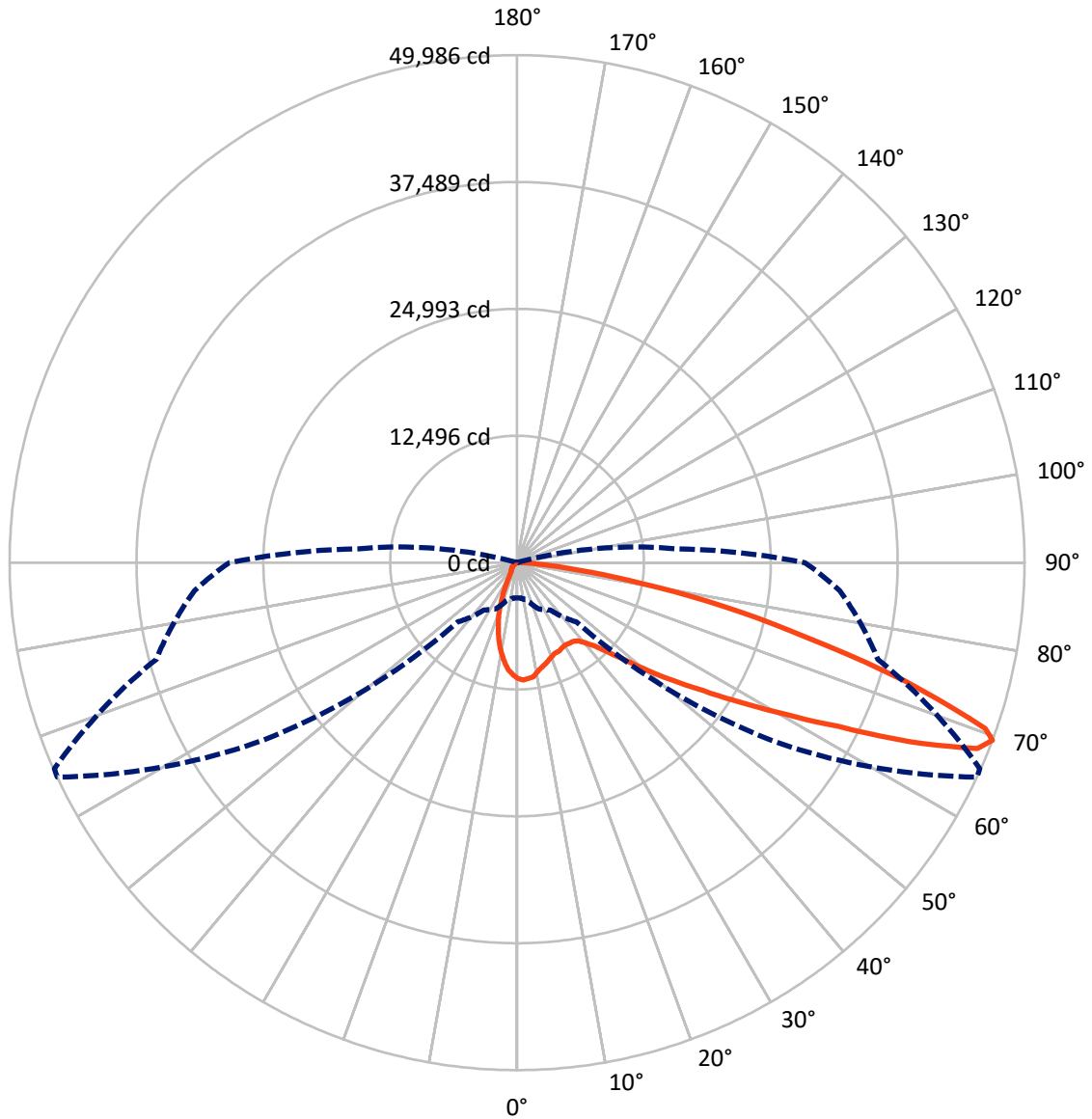
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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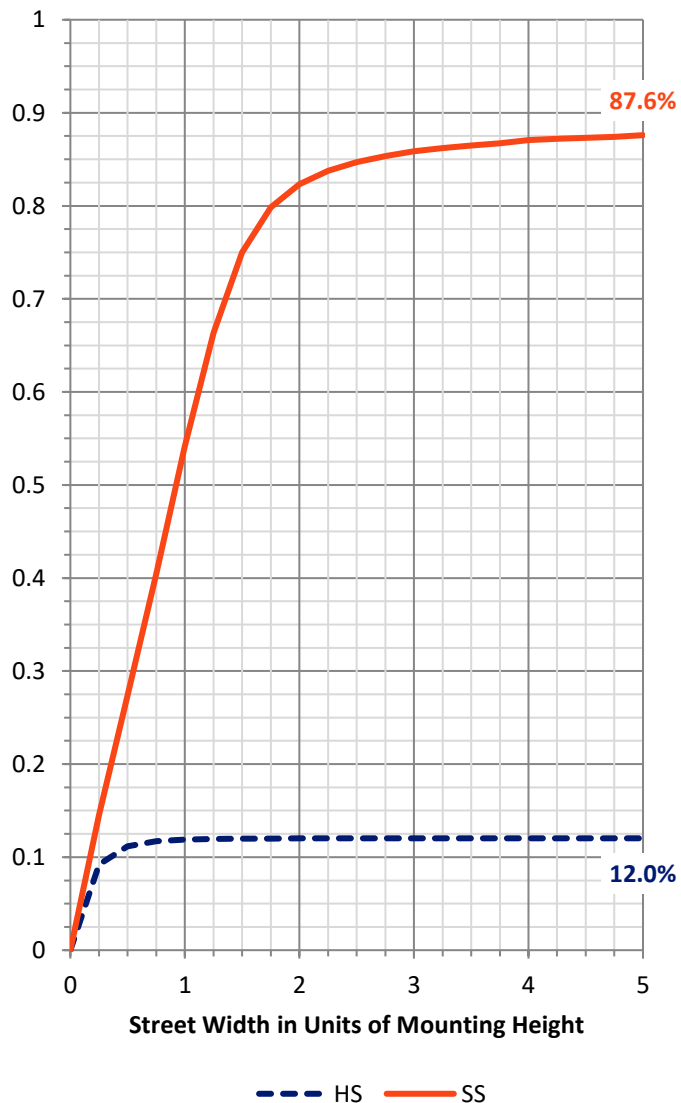
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5489.7	0.0	5489.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	39765.0	0.0	39765.0
	% Fixture	87.9	0.0	87.9
Total	Lumens	45254.6	0.0	45254.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	933.7	2.1
10°-20°	2042.9	4.5
20°-30°	2844.2	6.3
30°-40°	4030.5	8.9
40°-50°	6351.9	14.0
50°-60°	10306.9	22.8
60°-70°	11510.7	25.4
70°-80°	6481.8	14.3
80°-90°	752.1	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°	45254.6	100.0
0°-180°	45254.6	100.0

Coefficient of Utilization



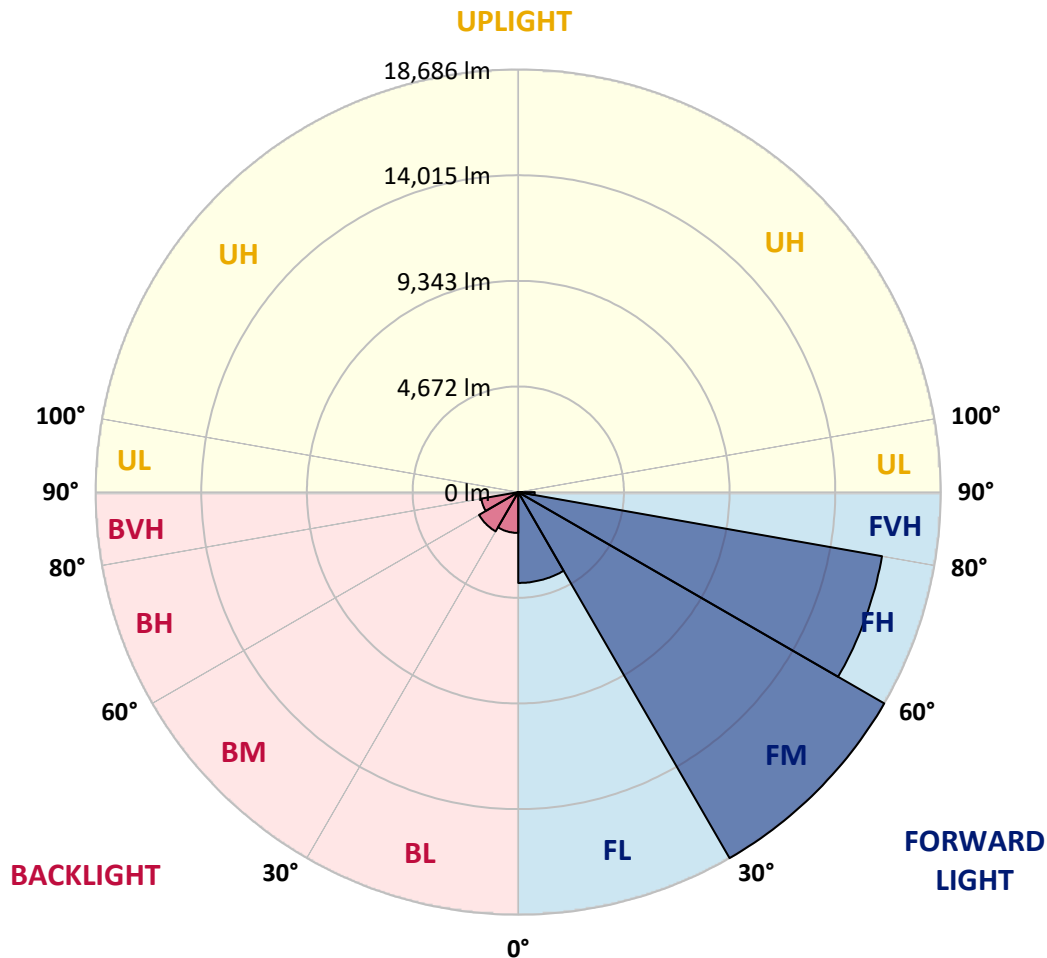
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4015.9	8.9			
FM (30°-60°)	18686.1	41.3			
FH (60°-80°)	16331.6	36.1			G5
FVH (80°-90°)	731.4	1.6			G4/750
BL (0°-30°)	1804.8	4.0	B3/2500		
BM (30°-60°)	2003.1	4.4	B2/2500		
BH (60°-80°)	1660.9	3.7	B3/2500		G3/2500
BVH (80°-90°)	20.7	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7
2.5°	10988.5	11074.0	11098.4	11183.9	11226.6	11409.7	11513.5	11574.6	11544.0	11611.2	11617.3
5°	10207.1	10158.3	10286.5	10378.0	10573.4	10890.8	11214.4	11464.7	11580.7	11690.6	11672.2
7.5°	9370.8	9346.3	9474.5	9682.1	9859.1	10243.7	10762.6	11379.2	11354.8	11623.4	11702.8
10°	8796.9	8821.3	8864.1	9071.6	9334.1	9724.8	10371.9	10945.8	11074.0	11641.7	11800.4
12.5°	8271.9	8314.6	8394.0	8607.7	8912.9	9315.8	9944.6	10616.1	10811.5	11537.9	11855.4
15°	8101.0	8003.3	8162.0	8320.8	8638.2	8998.4	9529.5	10365.8	10451.3	11415.8	11947.0
17.5°	7960.6	7899.5	7972.8	8101.0	8436.7	8729.8	9230.4	10097.2	10256.0	11367.0	11934.8
20°	8003.3	7948.4	7978.9	8076.6	8229.2	8503.9	8967.9	9840.8	10011.8	11141.1	11916.4
22.5°	8125.4	8168.1	8113.2	8137.6	8186.4	8326.9	8827.4	9657.7	9804.2	11098.4	12020.2
25°	8674.8	8601.6	8528.3	8497.8	8210.9	8271.9	8784.7	9645.5	9749.3	10945.8	11934.8
27.5°	9248.7	9187.6	9157.1	8980.1	8589.4	8406.2	8790.8	9474.5	9615.0	10884.7	11831.0
30°	9944.6	10024.0	9901.9	9688.2	9144.9	8693.1	8858.0	9389.1	9584.4	10652.8	11763.8
32.5°	10677.2	10719.9	10781.0	10622.2	9920.2	9126.6	9059.4	9468.4	9480.6	10652.8	11611.2
35°	11507.4	11446.4	11605.1	11617.3	11000.7	9895.8	9444.0	9523.4	9651.6	10603.9	11556.3
37.5°	12221.7	12325.5	12508.6	12801.6	12166.7	10982.4	10042.3	9779.8	9834.7	10829.8	11599.0
40°	13003.1	13106.9	13522.0	13815.0	13454.8	12203.4	10951.9	10378.0	10420.8	11165.6	11818.8
42.5°	13863.8	14065.3	14559.8	15072.6	14974.9	13754.0	12124.0	11257.1	11238.8	12001.9	12270.5
45°	15029.9	15298.5	15835.7	16427.8	16513.3	15530.4	13686.8	12569.6	12630.7	13094.7	13204.5
47.5°	16653.7	16641.5	17166.5	17825.8	18320.3	17374.1	15554.9	14333.9	14327.8	14822.3	14590.3
50°	18222.6	18228.7	18369.1	19132.2	20414.2	19932.0	17868.6	16678.1	16611.0	16855.2	16482.8
52.5°	18949.1	18863.6	18759.8	19681.7	22025.9	23155.2	20798.8	19333.7	19278.7	19132.2	19034.6
55°	18186.0	18216.5	18210.4	19168.9	22874.4	26555.6	24559.3	22257.9	22166.3	21708.4	21842.7
57.5°	15738.0	15640.3	15854.0	17349.6	21903.8	28875.4	29937.6	25945.1	25707.0	24186.9	23881.7
60°	11715.0	11745.5	11922.5	13686.8	19492.4	29363.8	35083.9	30273.4	29247.8	25932.9	25511.7
62.5°	8180.3	8119.3	8186.4	9175.4	13937.1	27410.2	38563.6	35535.6	34546.7	27916.9	27672.8
65°	5854.4	5775.1	6043.7	6648.1	8369.6	20957.5	39058.1	42543.9	41658.7	31085.3	30499.2
67.5°	4212.3	4200.1	4511.4	5610.2	5946.0	12069.1	35395.2	48892.8	48355.6	34845.8	32220.8
69°	3485.8	3491.9	3791.0	5024.2	5677.4	8241.4	30456.5	49985.5	49887.9	36787.1	31897.2
70°	3040.2	3064.6	3412.5	4676.2	5567.5	6776.3	26256.5	48911.1	48813.4	37165.6	30828.9
72.5°	1874.2	1892.5	2350.3	3748.3	5292.8	5530.9	15701.4	40016.5	40352.3	35431.9	26561.7
75°	897.4	903.5	1233.2	2710.5	5103.6	5244.0	8412.3	29528.6	30236.7	28606.8	20756.1
77.5°	476.2	476.2	592.2	1440.7	4132.9	4932.6	4993.7	20829.3	21415.4	18088.3	11800.4
80°	238.1	244.2	360.2	750.9	2564.0	4834.9	3900.9	12423.1	12740.6	7380.6	3675.0
82.5°	91.6	97.7	170.9	451.8	1330.8	4084.1	3424.8	6110.8	6031.5	1727.6	897.4
85°	12.2	12.2	61.0	268.6	567.7	1800.9	2826.5	2551.8	2466.3	378.5	433.4
87.5°	0.0	0.0	12.2	79.4	170.9	525.0	1092.7	702.0	781.4	103.8	213.7
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°	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7	11409.7
2.5°	11586.8	11458.6	11263.2	11074.0	10872.5	10628.3	10359.7	10262.1	10091.1	10078.9	10176.6
5°	11574.6	11367.0	11025.1	10622.2	10048.4	9615.0	9144.9	8803.0	8540.5	8369.6	8412.3
7.5°	11635.6	11385.3	10793.2	9926.3	9187.6	8326.9	7600.4	7099.8	6641.9	6416.1	6391.7
10°	11537.9	11202.2	10335.3	9120.5	8033.8	6831.2	5769.0	5097.5	4413.7	4163.4	4175.6
12.5°	11592.9	11122.8	9840.8	8290.2	6794.6	5231.8	3962.0	3046.3	2405.3	2197.7	2173.3
15°	11629.5	10951.9	9364.7	7295.2	5421.0	3565.2	2295.4	1727.6	1526.2	1489.6	1483.4
17.5°	11489.1	10744.3	8693.1	6312.3	4016.9	2167.2	1526.2	1410.2	1373.6	1349.1	1336.9
20°	11483.0	10622.2	8113.2	5305.0	2680.0	1477.3	1318.6	1275.9	1220.9	1202.6	1202.6
22.5°	11379.2	10365.8	7417.2	4200.1	1709.3	1269.8	1184.3	1117.2	1056.1	1031.7	1025.6
25°	11348.7	10066.7	6764.0	3156.1	1300.3	1135.5	1050.0	952.3	879.1	842.5	824.1
27.5°	11263.2	9810.3	6104.7	2222.1	1135.5	1013.4	903.5	799.7	714.3	659.3	653.2
30°	10958.0	9541.7	5372.2	1538.4	1031.7	897.4	775.3	653.2	567.7	531.1	518.9
32.5°	10829.8	9291.4	4572.4	1184.3	940.1	793.6	653.2	543.3	476.2	439.5	433.4
35°	10677.2	8925.1	3797.1	1031.7	854.7	689.8	549.4	457.9	402.9	372.4	372.4
37.5°	10695.5	8632.1	3070.7	934.0	763.1	592.2	470.1	390.7	341.9	311.3	311.3
40°	10640.5	8400.1	2387.0	848.6	677.6	506.7	396.8	329.7	286.9	256.4	250.3
42.5°	10890.8	8339.1	1800.9	775.3	592.2	433.4	341.9	280.8	238.1	201.5	201.5
45°	11312.1	8436.7	1404.1	708.1	506.7	372.4	293.0	232.0	189.2	164.8	158.7
47.5°	12435.3	8821.3	1098.9	653.2	433.4	323.6	244.2	189.2	152.6	128.2	122.1
50°	14065.3	9682.1	934.0	573.8	366.3	274.7	201.5	146.5	122.1	97.7	91.6
52.5°	16385.1	11128.9	848.6	506.7	305.2	225.9	158.7	116.0	91.6	73.3	67.2
55°	18912.5	12935.9	769.2	427.3	256.4	183.1	128.2	91.6	67.2	48.8	42.7
57.5°	20884.3	14498.7	702.0	354.1	207.6	146.5	97.7	67.2	48.8	30.5	24.4
60°	23039.3	15597.6	616.6	280.8	170.9	109.9	73.3	48.8	36.6	18.3	18.3
62.5°	25261.4	16885.7	506.7	219.8	134.3	85.5	54.9	36.6	24.4	6.1	6.1
65°	28350.4	17893.0	390.7	170.9	103.8	61.0	42.7	30.5	12.2	0.0	0.0
67.5°	29223.4	17398.5	286.9	134.3	73.3	42.7	30.5	18.3	6.1	0.0	0.0
69°	28350.4	15670.8	250.3	116.0	61.0	36.6	24.4	12.2	6.1	0.0	0.0
70°	26757.0	14327.8	219.8	97.7	54.9	36.6	18.3	12.2	6.1	0.0	0.0
72.5°	22379.9	10988.5	170.9	73.3	42.7	30.5	18.3	12.2	0.0	0.0	0.0
75°	16415.6	6788.5	128.2	54.9	36.6	24.4	18.3	12.2	0.0	0.0	0.0
77.5°	8796.9	2478.5	91.6	36.6	24.4	18.3	18.3	12.2	0.0	0.0	0.0
80°	2411.4	732.6	67.2	24.4	18.3	12.2	12.2	6.1	0.0	0.0	0.0
82.5°	659.3	189.2	42.7	24.4	18.3	12.2	6.1	0.0	0.0	0.0	0.0
85°	354.1	73.3	24.4	18.3	12.2	6.1	0.0	0.0	0.0	0.0	0.0
87.5°	183.1	24.4	18.3	12.2	12.2	6.1	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)