

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: P484379

Luminaire Tested: **IFLD-M-SA4C-735-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484379
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-735-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

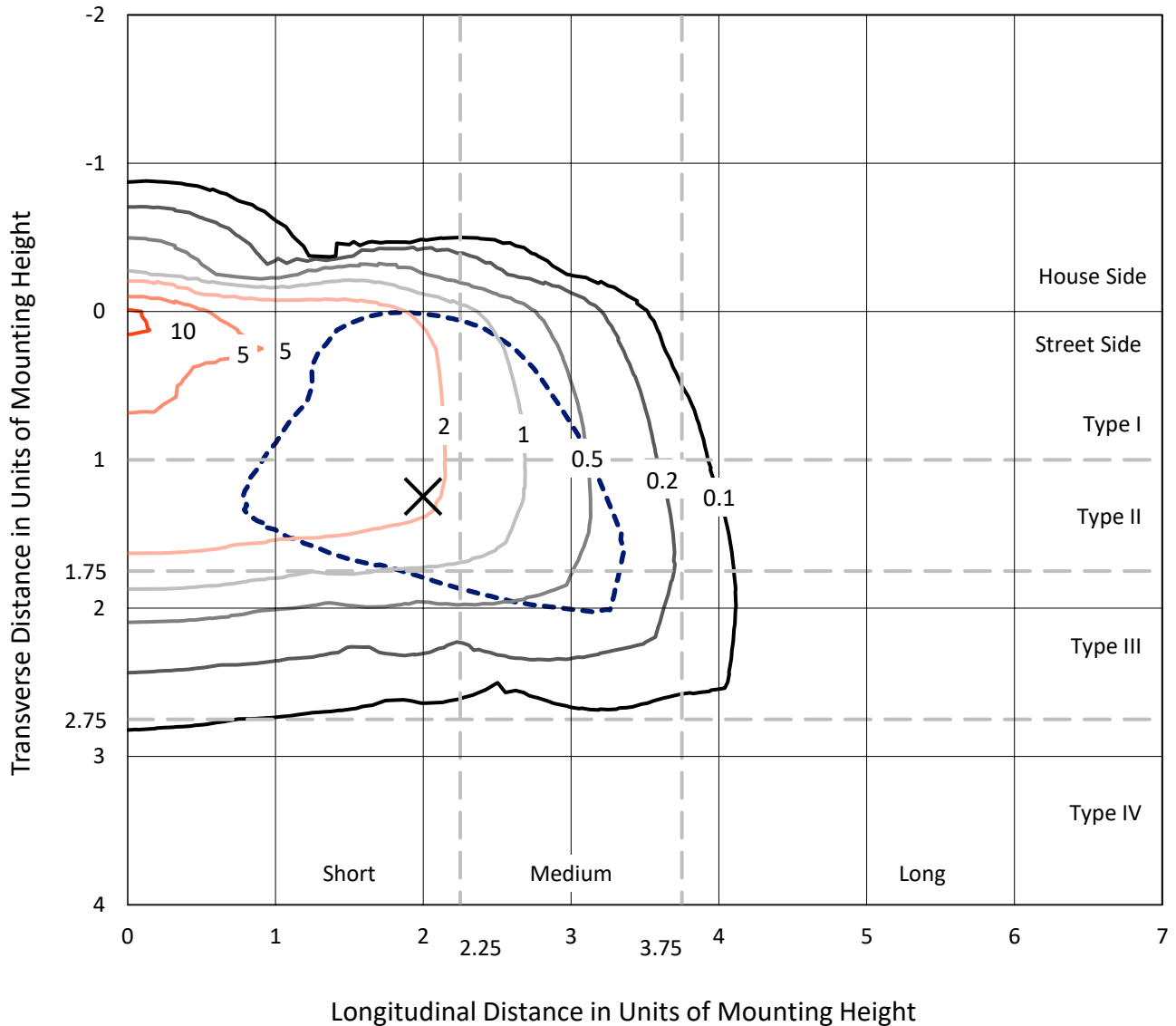
Lumens per Lamp: N/A
Luminaire Lumens: 23451.5 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 218.1
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

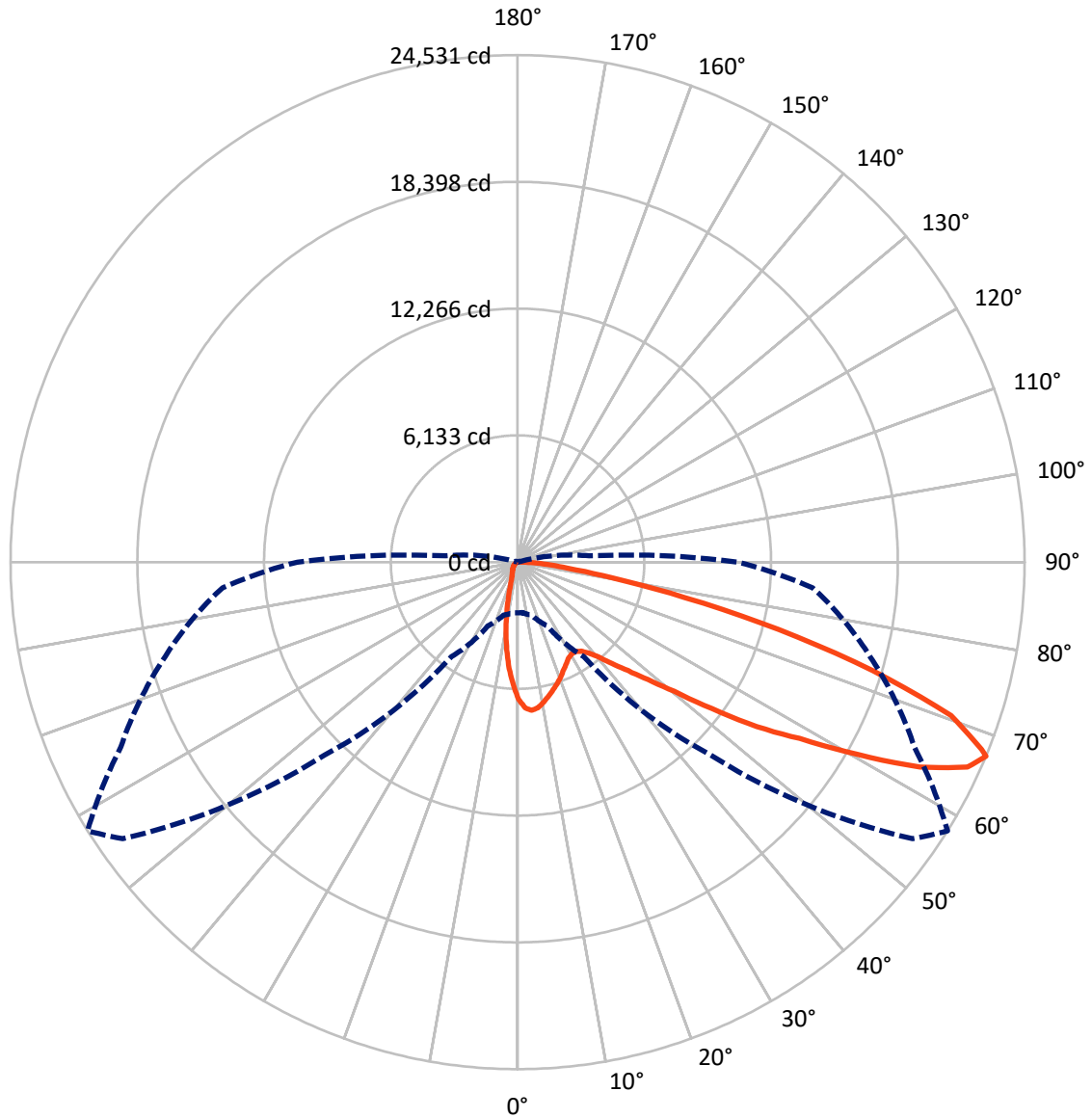
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 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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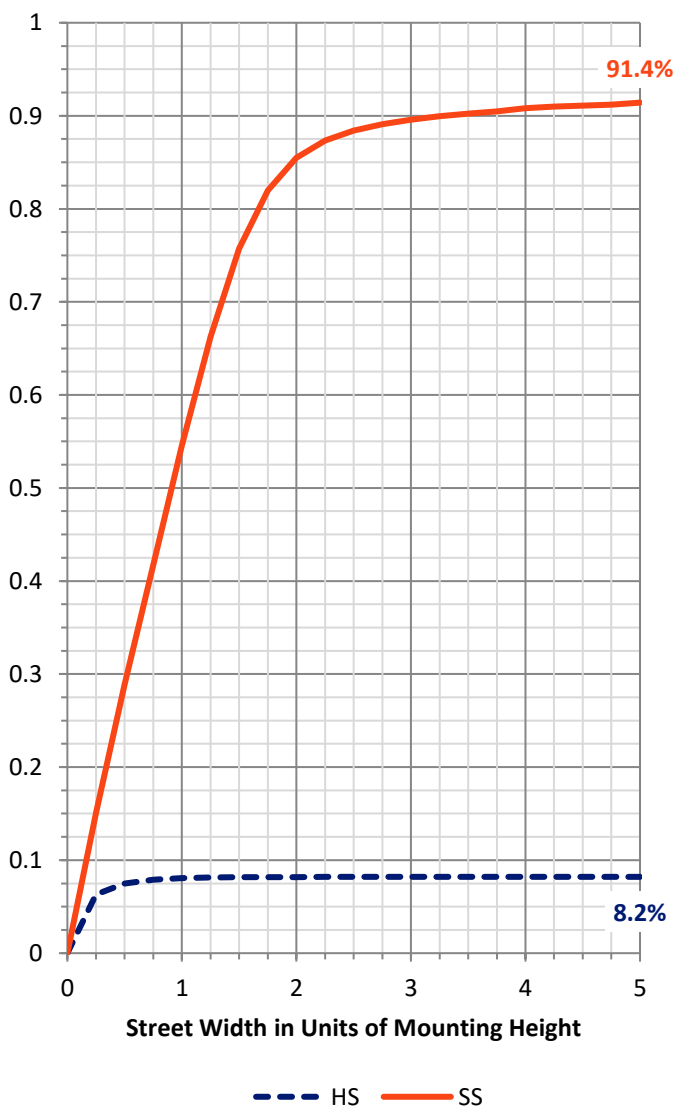
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1938.4	0.0	1938.4
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	21513.1	0.0	21513.1
	% Fixture	91.7	0.0	91.7
Total	Lumens	23451.5	0.0	23451.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.2	2.2
10°-20°	1093.5	4.7
20°-30°	1450.8	6.2
30°-40°	2010.3	8.6
40°-50°	3280.3	14.0
50°-60°	5765.7	24.6
60°-70°	6386.0	27.2
70°-80°	2646.4	11.3
80°-90°	291.3	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°	23451.5	100.0
0°-180°	23451.5	100.0

Coefficient of Utilization



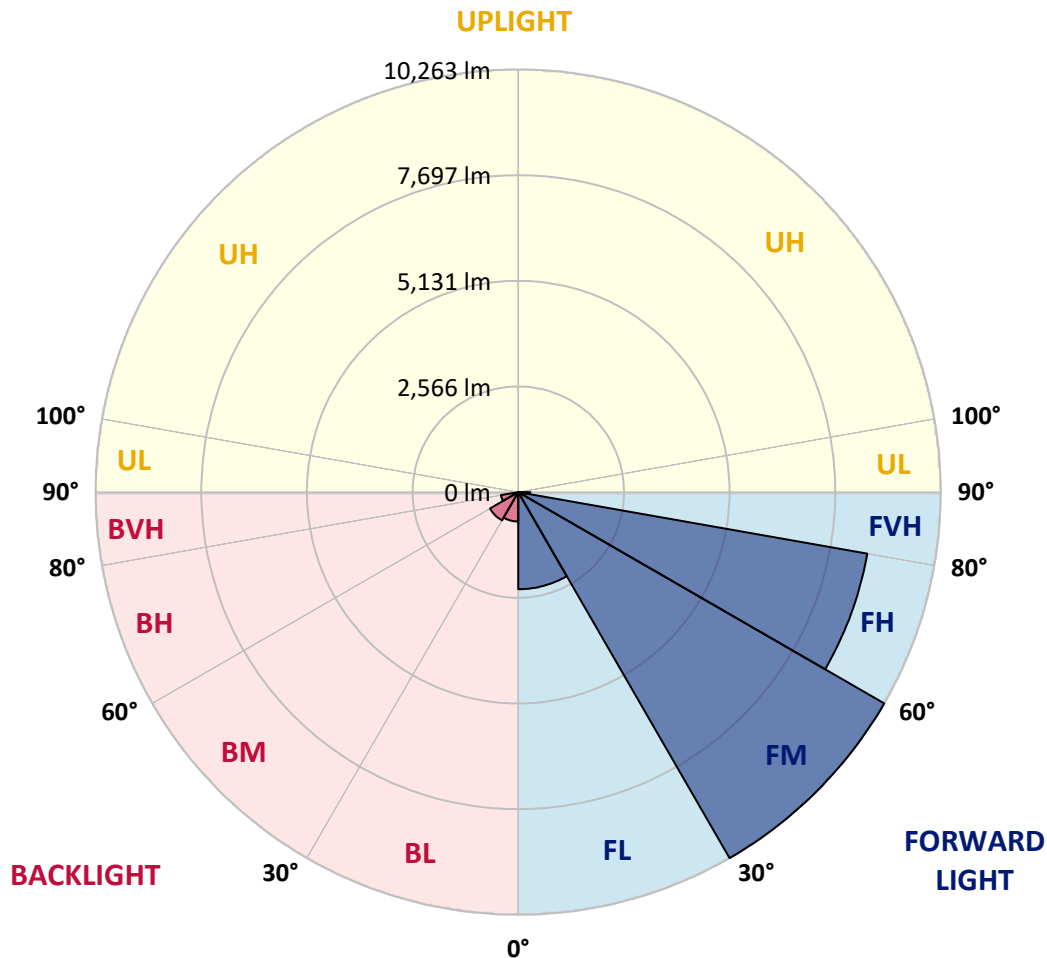
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2357.5	10.1			
FM (30°-60°)	10262.9	43.8			
FH (60°-80°)	8606.2	36.7			G4/12000
FVH (80°-90°)	286.5	1.2			G3/500
BL (0°-30°)	713.9	3.0	B2/1000		
BM (30°-60°)	793.5	3.4	B1/1000		
BH (60°-80°)	426.2	1.8	B1/500		G1/500
BVH (80°-90°)	4.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1
2.5°	7229.5	7254.4	7276.2	7235.7	7269.9	7220.1	7092.5	7064.5	7042.7	6852.7	6743.8
5°	7226.4	7198.3	7220.1	7238.8	7192.1	7229.5	7198.3	7201.4	7117.4	6946.1	6641.0
7.5°	6743.8	6731.3	6743.8	6834.1	6936.8	7017.8	7064.5	7111.2	7055.1	6799.8	6504.0
10°	6093.1	6155.3	6189.6	6351.5	6510.3	6659.7	6806.0	6893.2	6877.6	6774.9	6354.6
12.5°	5638.5	5619.8	5744.3	5850.2	6009.0	6311.0	6566.3	6647.3	6740.7	6597.4	6158.4
15°	5218.2	5168.4	5243.1	5426.8	5697.6	5937.4	6295.4	6416.9	6535.2	6572.5	6052.6
17.5°	4816.5	4841.4	4919.3	5084.3	5339.6	5675.9	6012.1	6186.5	6469.8	6420.0	5893.8
20°	4623.5	4676.4	4704.4	4788.5	4966.0	5302.2	5803.5	5943.6	6245.6	6416.9	5738.1
22.5°	4632.8	4632.8	4567.5	4617.3	4779.2	5040.7	5520.2	5675.9	6155.3	6255.0	5598.0
25°	4732.5	4670.2	4673.3	4614.2	4682.7	4825.9	5264.9	5454.8	5971.6	6270.5	5523.3
27.5°	4807.2	4794.7	4776.1	4760.5	4673.3	4695.1	5096.7	5252.4	5900.0	6251.8	5408.1
30°	5078.1	5022.0	5003.3	4969.1	4853.9	4748.0	4962.9	5159.0	5844.0	6295.4	5342.7
32.5°	5305.3	5314.7	5330.3	5230.6	5131.0	4869.5	5000.2	5155.9	5803.5	6395.1	5408.1
35°	5591.8	5632.3	5638.5	5607.4	5501.5	5243.1	5155.9	5289.8	5872.0	6572.5	5414.3
37.5°	6027.7	5984.1	6102.4	6114.8	6040.1	5697.6	5517.1	5570.0	6074.4	6855.9	5650.9
40°	6311.0	6363.9	6585.0	6722.0	6594.3	6283.0	6040.1	6030.8	6367.0	7301.1	5943.6
42.5°	6625.5	6743.8	6986.6	7282.4	7266.8	6977.3	6731.3	6690.8	6887.0	7945.6	6407.5
45°	7055.1	7161.0	7500.3	7945.6	8188.4	7942.5	7572.0	7491.0	7519.0	8823.6	7198.3
47.5°	7768.1	7740.1	8228.9	8667.9	9066.4	8876.5	8717.7	8481.1	8459.3	9857.2	8291.2
50°	8574.5	8568.3	9004.1	9502.3	9963.1	10333.6	10069.0	9810.5	9816.8	11261.4	9577.0
52.5°	9340.4	9461.8	9932.0	10427.0	11217.8	11616.3	11871.6	11768.9	11273.9	12516.1	10953.2
55°	9745.2	9851.0	10318.0	11171.1	12419.6	13444.0	14135.1	14048.0	13092.1	13929.7	12310.6
57.5°	9362.2	9433.8	10065.8	11183.6	13260.3	15545.5	16208.7	16099.7	14972.7	15010.0	13951.4
60°	7758.8	7870.8	8811.1	10121.9	12933.3	17164.5	19063.8	18898.7	16685.1	16376.8	15006.9
62.5°	5373.8	5448.6	6220.7	7852.2	11382.8	17728.1	21760.0	21850.3	18490.9	17441.6	15321.4
65°	3480.9	3474.6	3916.7	5022.0	8067.0	16021.9	23354.1	23914.5	20234.4	17603.5	15224.9
67°	2459.6	2450.3	2658.9	3406.1	5585.6	13201.1	23326.1	24531.0	21180.9	17650.2	14331.3
67.5°	2269.7	2260.4	2459.6	3132.1	5040.7	12276.4	22977.4	24213.4	21514.1	17584.9	13939.0
70°	1762.2	1737.3	1812.0	2157.6	2936.0	7939.3	19664.7	22242.6	20822.9	15953.4	11130.6
72.5°	1273.4	1301.4	1419.7	1771.6	2304.0	4271.7	14988.2	17986.5	17391.8	12024.2	7073.8
75°	887.3	912.2	1102.2	1444.6	2114.0	2590.4	10134.3	13045.4	12114.5	6637.9	3013.8
77.5°	463.9	495.0	703.6	1155.1	1921.0	2005.1	6055.7	8272.5	6420.0	2363.1	831.3
80°	214.8	230.4	351.8	818.8	1606.5	1762.2	3530.7	4601.7	2568.6	529.3	286.4
82.5°	93.4	102.7	161.9	470.1	1139.5	1541.2	2185.7	2412.9	930.9	171.2	177.5
85°	18.7	21.8	62.3	249.1	551.1	934.0	1534.9	1432.2	467.0	84.1	140.1
87.5°	0.0	0.0	15.6	71.6	149.4	277.1	650.7	650.7	143.2	43.6	52.9
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°	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1	6644.1
2.5°	6647.3	6535.2	6289.2	6061.9	5900.0	5716.3	5473.5	5364.5	5324.0	5268.0	5183.9
5°	6472.9	6335.9	5915.6	5492.2	5028.2	4676.4	4302.8	4084.9	3919.9	3817.1	3782.9
7.5°	6226.9	5946.7	5380.1	4701.3	4100.4	3577.4	3010.7	2627.8	2381.8	2282.2	2188.8
10°	6030.8	5666.5	4804.1	3960.3	3160.2	2394.3	1756.0	1419.7	1164.4	1067.9	1055.5
12.5°	5775.5	5339.6	4265.4	3203.8	2198.1	1426.0	971.4	843.7	772.1	759.7	750.3
15°	5563.8	5043.8	3754.8	2481.4	1422.9	890.5	756.6	725.4	706.8	700.5	703.6
17.5°	5420.5	4726.2	3231.8	1805.8	937.2	728.6	697.4	678.7	669.4	666.3	656.9
20°	5137.2	4458.5	2714.9	1264.1	731.7	672.5	647.6	632.0	622.7	619.6	616.5
22.5°	4975.3	4119.1	2198.1	881.1	650.7	610.2	591.6	579.1	563.5	554.2	551.1
25°	4813.4	3870.0	1737.3	685.0	591.6	563.5	535.5	519.9	495.0	482.6	479.5
27.5°	4623.5	3624.1	1338.8	594.7	532.4	504.4	476.4	451.5	420.3	407.9	401.6
30°	4514.5	3384.3	1008.8	532.4	488.8	451.5	417.2	386.1	351.8	330.0	323.8
32.5°	4458.5	3166.4	756.6	485.7	442.1	401.6	358.0	320.7	289.6	270.9	267.8
35°	4390.0	2954.7	594.7	442.1	398.5	354.9	311.3	274.0	242.9	227.3	221.1
37.5°	4461.6	2830.1	495.0	407.9	364.3	314.5	267.8	230.4	205.5	189.9	186.8
40°	4657.7	2727.4	429.7	376.7	330.0	277.1	233.5	196.1	174.4	161.9	155.7
42.5°	4959.8	2727.4	389.2	345.6	298.9	242.9	199.3	171.2	149.4	137.0	133.9
45°	5507.7	2811.5	354.9	314.5	261.5	208.6	171.2	143.2	121.4	109.0	105.9
47.5°	6276.7	3004.5	326.9	286.4	233.5	183.7	149.4	121.4	99.6	87.2	84.1
50°	7310.4	3443.5	298.9	252.2	208.6	158.8	124.5	96.5	77.8	65.4	62.3
52.5°	8599.4	4066.2	270.9	233.5	177.5	133.9	99.6	77.8	59.2	49.8	46.7
55°	9963.1	4829.0	236.6	208.6	152.6	112.1	81.0	59.2	43.6	37.4	34.2
57.5°	11336.1	5417.4	208.6	180.6	124.5	90.3	65.4	46.7	31.1	24.9	21.8
60°	12064.7	5473.5	180.6	149.4	99.6	71.6	49.8	34.2	21.8	15.6	12.5
62.5°	12176.8	4975.3	155.7	121.4	81.0	56.0	34.2	24.9	12.5	6.2	6.2
65°	11600.8	4147.1	133.9	96.5	62.3	40.5	24.9	15.6	6.2	3.1	0.0
67°	10666.7	3474.6	115.2	81.0	49.8	31.1	18.7	9.3	3.1	0.0	0.0
67.5°	10305.6	3287.8	109.0	74.7	46.7	28.0	15.6	9.3	3.1	0.0	0.0
70°	7998.5	2347.6	81.0	52.9	34.2	21.8	12.5	6.2	0.0	0.0	0.0
72.5°	4900.6	1373.0	62.3	37.4	24.9	15.6	9.3	3.1	0.0	0.0	0.0
75°	2054.9	473.2	52.9	28.0	18.7	9.3	6.2	3.1	0.0	0.0	0.0
77.5°	535.5	177.5	37.4	18.7	12.5	9.3	6.2	3.1	0.0	0.0	0.0
80°	217.9	81.0	24.9	12.5	12.5	9.3	6.2	3.1	0.0	0.0	0.0
82.5°	143.2	37.4	15.6	12.5	9.3	6.2	3.1	0.0	0.0	0.0	0.0
85°	109.0	21.8	9.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	46.7	12.5	9.3	6.2	6.2	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)