

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: P484302

Luminaire Tested: **IFLD-M-SA4D-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484302
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (64) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

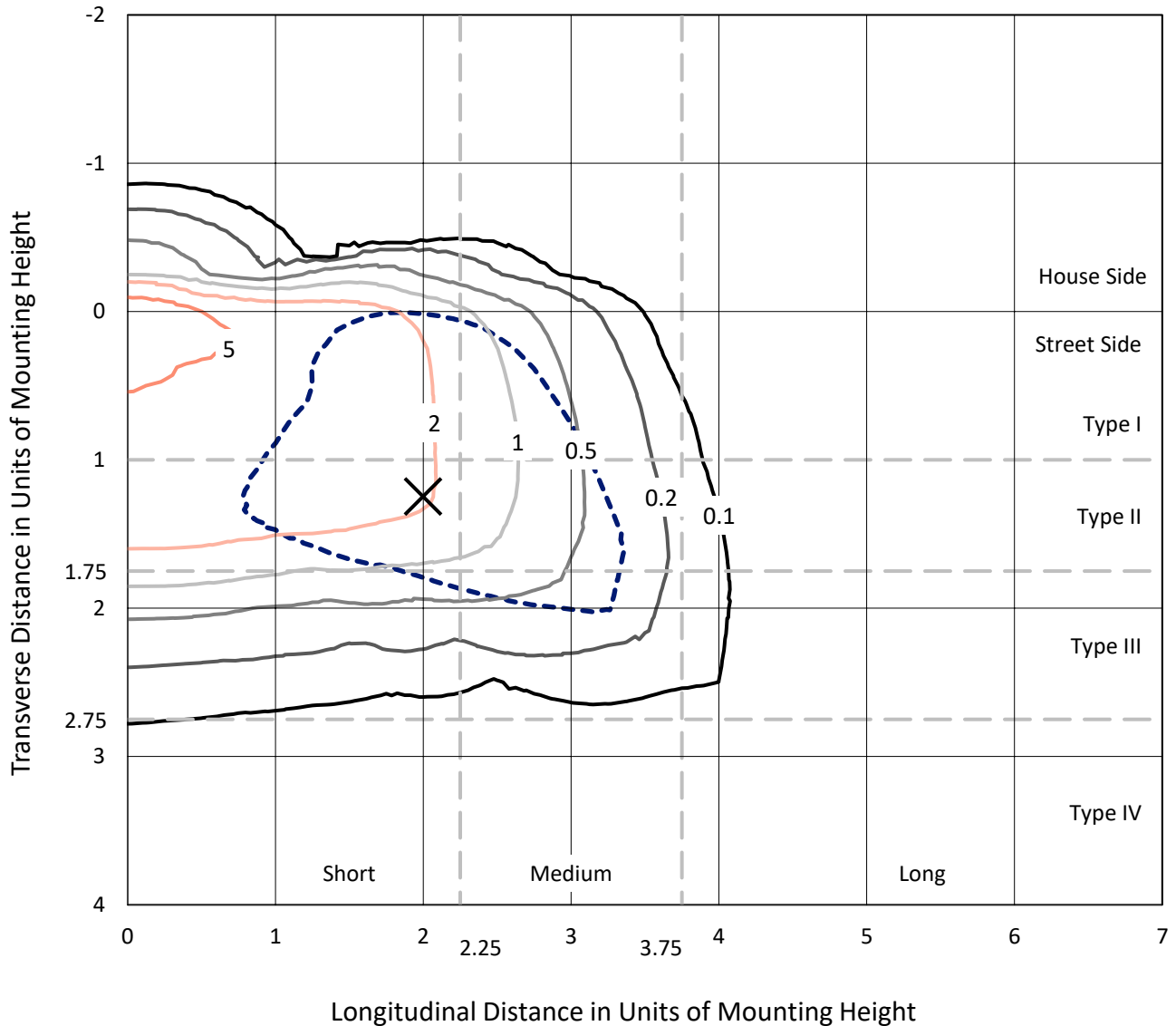
Lumens per Lamp: N/A
Luminaire Lumens: 21879.8 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 249.7
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

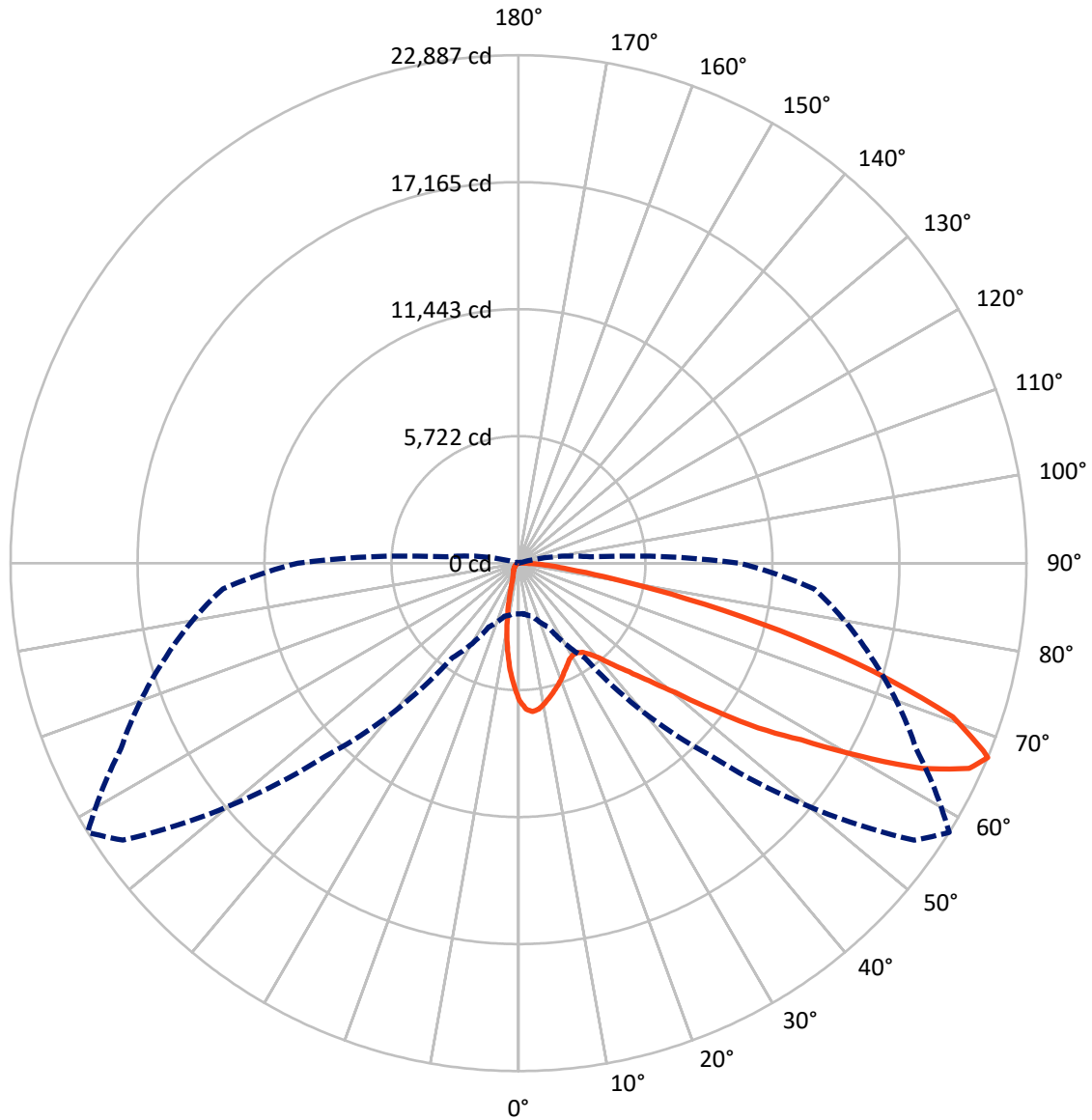
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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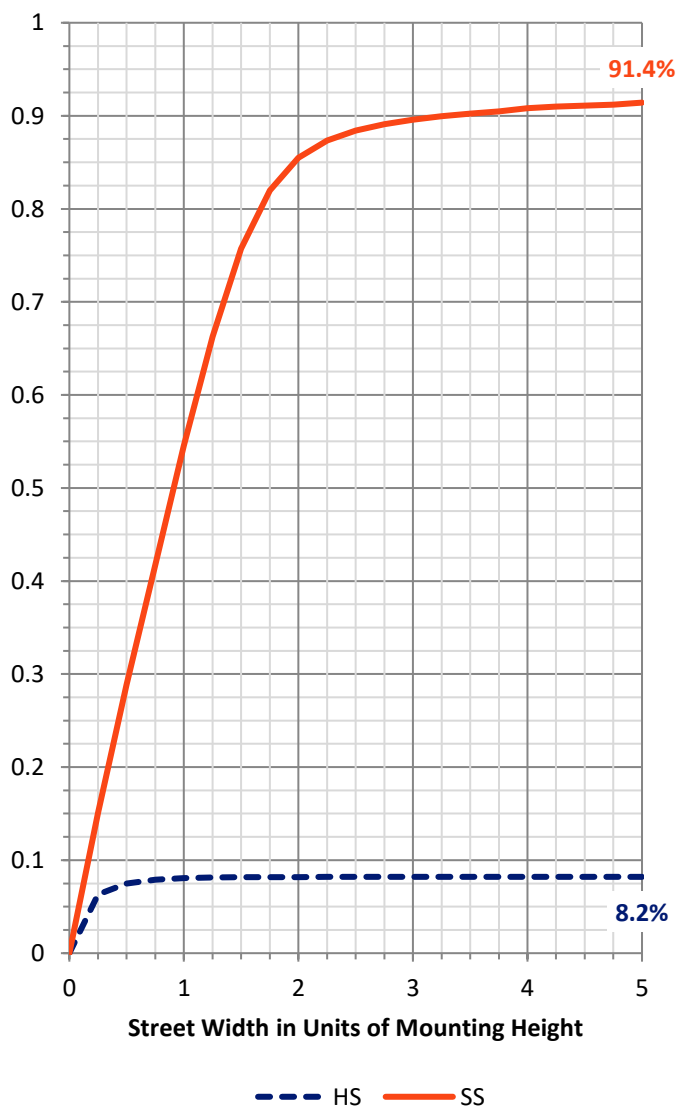
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1808.5	0.0	1808.5
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	20071.3	0.0	20071.3
	% Fixture	91.7	0.0	91.7
Total	Lumens	21879.8	0.0	21879.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	491.9	2.2
10°-20°	1020.2	4.7
20°-30°	1353.6	6.2
30°-40°	1875.6	8.6
40°-50°	3060.5	14.0
50°-60°	5379.3	24.6
60°-70°	5958.0	27.2
70°-80°	2469.0	11.3
80°-90°	271.8	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°	21879.8	100.0
0°-180°	21879.8	100.0

Coefficient of Utilization



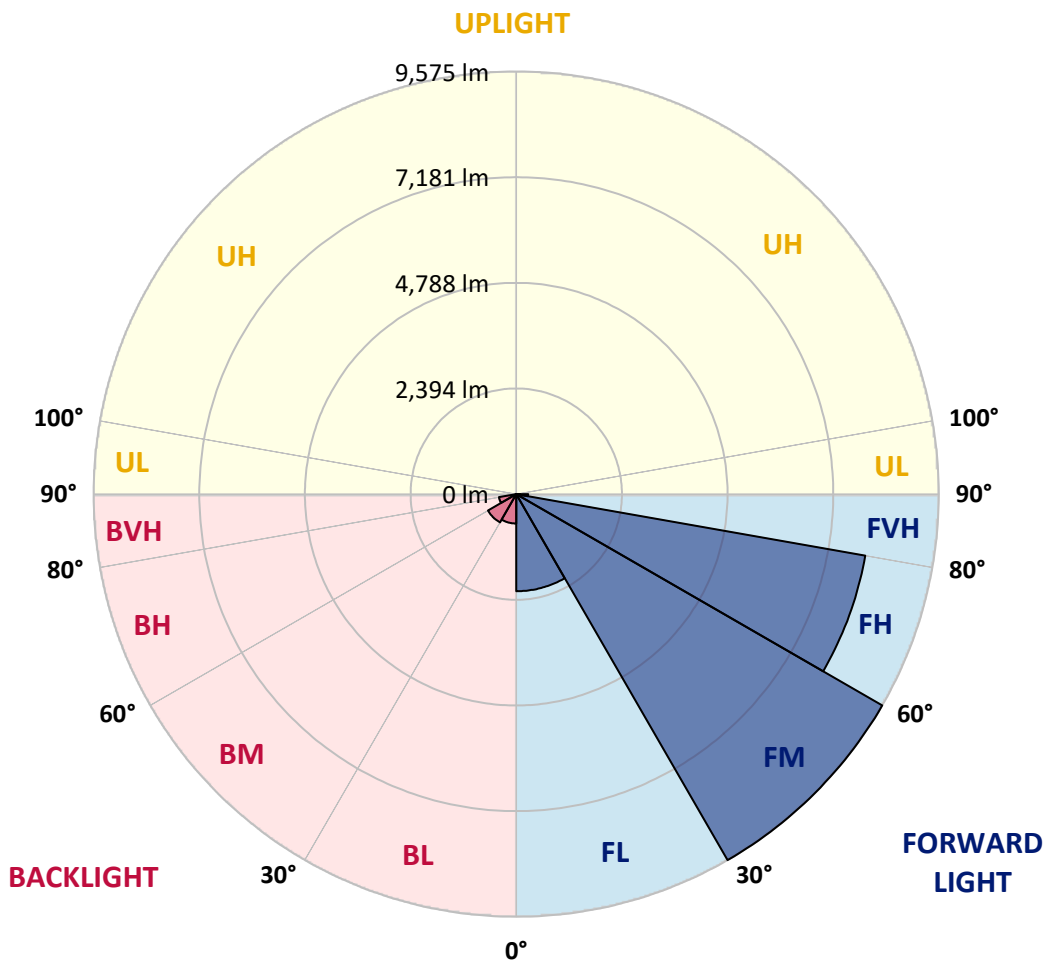
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2199.5	10.1			
FM (30°-60°)	9575.0	43.8			
FH (60°-80°)	8029.4	36.7			G4/12000
FVH (80°-90°)	267.3	1.2			G3/500
BL (0°-30°)	666.1	3.0	B2/1000		
BM (30°-60°)	740.3	3.4	B1/1000		
BH (60°-80°)	397.6	1.8	B1/500		G1/500
BVH (80°-90°)	4.5	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°	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8
2.5°	6744.9	6768.2	6788.5	6750.8	6782.7	6736.2	6617.1	6591.0	6570.7	6393.5	6291.8
5°	6742.0	6715.9	6736.2	6753.7	6710.1	6744.9	6715.9	6718.8	6640.4	6480.6	6195.9
7.5°	6291.8	6280.2	6291.8	6376.0	6471.9	6547.4	6591.0	6634.6	6582.3	6344.1	6068.1
10°	5684.7	5742.8	5774.7	5925.8	6073.9	6213.4	6349.9	6431.2	6416.7	6320.8	5928.7
12.5°	5260.6	5243.2	5359.4	5458.1	5606.3	5888.0	6126.2	6201.7	6288.9	6155.3	5745.7
15°	4868.4	4822.0	4891.7	5063.1	5315.8	5539.5	5873.5	5986.8	6097.2	6132.0	5646.9
17.5°	4493.7	4517.0	4589.6	4743.5	4981.7	5295.4	5609.2	5771.8	6036.2	5989.7	5498.8
20°	4313.6	4363.0	4389.2	4467.6	4633.2	4946.9	5414.5	5545.3	5827.0	5986.8	5353.5
22.5°	4322.3	4322.3	4261.3	4307.8	4458.9	4702.9	5150.2	5295.4	5742.8	5835.7	5222.8
25°	4415.3	4357.2	4360.1	4304.9	4368.8	4502.4	4912.0	5089.2	5571.4	5850.3	5153.1
27.5°	4485.0	4473.4	4456.0	4441.4	4360.1	4380.4	4755.2	4900.4	5504.6	5832.8	5045.6
30°	4737.7	4685.4	4668.0	4636.1	4528.6	4429.8	4630.2	4813.3	5452.3	5873.5	4984.6
32.5°	4949.8	4958.5	4973.0	4880.1	4787.1	4543.1	4665.1	4810.3	5414.5	5966.5	5045.6
35°	5217.0	5254.8	5260.6	5231.5	5132.8	4891.7	4810.3	4935.3	5478.5	6132.0	5051.4
37.5°	5623.7	5583.0	5693.4	5705.0	5635.3	5315.8	5147.3	5196.7	5667.3	6396.4	5272.2
40°	5888.0	5937.4	6143.6	6271.5	6152.4	5861.9	5635.3	5626.6	5940.3	6811.8	5545.3
42.5°	6181.4	6291.8	6518.4	6794.3	6779.8	6509.7	6280.2	6242.4	6425.4	7413.0	5978.1
45°	6582.3	6681.0	6997.7	7413.0	7639.6	7410.1	7064.5	6988.9	7015.1	8232.2	6715.9
47.5°	7247.5	7221.3	7677.4	8087.0	8458.8	8281.6	8133.4	7912.7	7892.3	9196.6	7735.5
50°	7999.8	7994.0	8400.7	8865.4	9295.4	9641.0	9394.1	9153.0	9158.8	10506.7	8935.2
52.5°	8714.4	8827.7	9266.3	9728.2	10466.0	10837.8	11076.0	10980.1	10518.3	11677.3	10219.1
55°	9092.0	9190.8	9626.5	10422.4	11587.2	12542.9	13187.8	13106.5	12214.7	12996.1	11485.6
57.5°	8734.7	8801.5	9391.2	10434.0	12371.5	14503.7	15122.4	15020.7	13969.2	14004.0	13016.4
60°	7238.8	7343.3	8220.6	9443.5	12066.5	16014.2	17786.1	17632.1	15566.8	15279.2	14001.1
62.5°	5013.7	5083.4	5803.8	7325.9	10619.9	16539.9	20301.6	20385.9	17251.6	16272.7	14294.5
65°	3247.6	3241.8	3654.2	4685.4	7526.3	14948.1	21788.9	22311.8	18878.3	16423.7	14204.5
67°	2294.8	2286.1	2480.7	3177.8	5211.2	12316.3	21762.8	22886.9	19761.3	16467.3	13370.8
67.5°	2117.6	2108.9	2294.8	2922.2	4702.9	11453.6	21437.4	22590.6	20072.2	16406.3	13004.8
70°	1644.1	1620.9	1690.6	2013.0	2739.2	7407.2	18346.7	20751.9	19427.3	14884.2	10384.7
72.5°	1188.1	1214.2	1324.6	1652.8	2149.6	3985.4	13983.7	16781.0	16226.2	11218.3	6599.7
75°	827.9	851.1	1028.3	1347.8	1972.4	2416.8	9455.1	12171.1	11302.6	6193.0	2811.8
77.5°	432.8	461.9	656.5	1077.7	1792.3	1870.7	5649.8	7718.1	5989.7	2204.7	775.6
80°	200.4	215.0	328.2	764.0	1498.9	1644.1	3294.0	4293.3	2396.5	493.8	267.2
82.5°	87.1	95.9	151.0	438.6	1063.2	1437.9	2039.2	2251.2	868.5	159.8	165.6
85°	17.4	20.3	58.1	232.4	514.1	871.4	1432.1	1336.2	435.7	78.4	130.7
87.5°	0.0	0.0	14.5	66.8	139.4	258.5	607.1	607.1	133.6	40.7	49.4
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°	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8	6198.8
2.5°	6201.7	6097.2	5867.7	5655.6	5504.6	5333.2	5106.6	5005.0	4967.2	4914.9	4836.5
5°	6039.1	5911.3	5519.1	5124.1	4691.3	4363.0	4014.4	3811.1	3657.1	3561.3	3529.3
7.5°	5809.6	5548.2	5019.5	4386.2	3825.6	3337.6	2808.9	2451.7	2222.2	2129.2	2042.1
10°	5626.6	5286.7	4482.1	3694.9	2948.4	2233.8	1638.3	1324.6	1086.4	996.3	984.7
12.5°	5388.4	4981.7	3979.6	2989.0	2050.8	1330.4	906.3	787.2	720.4	708.8	700.1
15°	5190.9	4705.8	3503.2	2315.1	1327.5	830.8	705.9	676.8	659.4	653.6	656.5
17.5°	5057.3	4409.5	3015.2	1684.8	874.3	679.7	650.7	633.2	624.5	621.6	612.9
20°	4792.9	4159.7	2533.0	1179.3	682.6	627.4	604.2	589.7	581.0	578.1	575.2
22.5°	4641.9	3843.0	2050.8	822.1	607.1	569.3	551.9	540.3	525.8	517.1	514.1
25°	4490.8	3610.7	1620.9	639.1	551.9	525.8	499.6	485.1	461.9	450.2	447.3
27.5°	4313.6	3381.2	1249.1	554.8	496.7	470.6	444.4	421.2	392.1	380.5	374.7
30°	4212.0	3157.5	941.2	496.7	456.1	421.2	389.2	360.2	328.2	307.9	302.1
32.5°	4159.7	2954.2	705.9	453.1	412.5	374.7	334.1	299.2	270.1	252.7	249.8
35°	4095.8	2756.7	554.8	412.5	371.8	331.1	290.5	255.6	226.6	212.1	206.2
37.5°	4162.6	2640.5	461.9	380.5	339.9	293.4	249.8	215.0	191.7	177.2	174.3
40°	4345.6	2544.6	400.9	351.5	307.9	258.5	217.9	183.0	162.7	151.0	145.2
42.5°	4627.3	2544.6	363.1	322.4	278.9	226.6	185.9	159.8	139.4	127.8	124.9
45°	5138.6	2623.0	331.1	293.4	244.0	194.6	159.8	133.6	113.3	101.7	98.8
47.5°	5856.1	2803.1	305.0	267.2	217.9	171.4	139.4	113.3	93.0	81.3	78.4
50°	6820.5	3212.7	278.9	235.3	194.6	148.1	116.2	90.0	72.6	61.0	58.1
52.5°	8023.1	3793.7	252.7	217.9	165.6	124.9	93.0	72.6	55.2	46.5	43.6
55°	9295.4	4505.3	220.8	194.6	142.3	104.6	75.5	55.2	40.7	34.9	32.0
57.5°	10576.4	5054.4	194.6	168.5	116.2	84.2	61.0	43.6	29.0	23.2	20.3
60°	11256.1	5106.6	168.5	139.4	93.0	66.8	46.5	32.0	20.3	14.5	11.6
62.5°	11360.7	4641.9	145.2	113.3	75.5	52.3	32.0	23.2	11.6	5.8	5.8
65°	10823.3	3869.2	124.9	90.0	58.1	37.8	23.2	14.5	5.8	2.9	0.0
67°	9951.8	3241.8	107.5	75.5	46.5	29.0	17.4	8.7	2.9	0.0	0.0
67.5°	9614.9	3067.5	101.7	69.7	43.6	26.1	14.5	8.7	2.9	0.0	0.0
70°	7462.4	2190.2	75.5	49.4	32.0	20.3	11.6	5.8	0.0	0.0	0.0
72.5°	4572.2	1281.0	58.1	34.9	23.2	14.5	8.7	2.9	0.0	0.0	0.0
75°	1917.2	441.5	49.4	26.1	17.4	8.7	5.8	2.9	0.0	0.0	0.0
77.5°	499.6	165.6	34.9	17.4	11.6	8.7	5.8	2.9	0.0	0.0	0.0
80°	203.3	75.5	23.2	11.6	11.6	8.7	5.8	2.9	0.0	0.0	0.0
82.5°	133.6	34.9	14.5	11.6	8.7	5.8	2.9	0.0	0.0	0.0	0.0
85°	101.7	20.3	8.7	8.7	5.8	2.9	0.0	0.0	0.0	0.0	0.0
87.5°	43.6	11.6	8.7	5.8	5.8	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)