

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: P484295

Luminaire Tested: **IFLD-S-SA6B-727-U-SL3-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P484295
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-727-U-SL3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

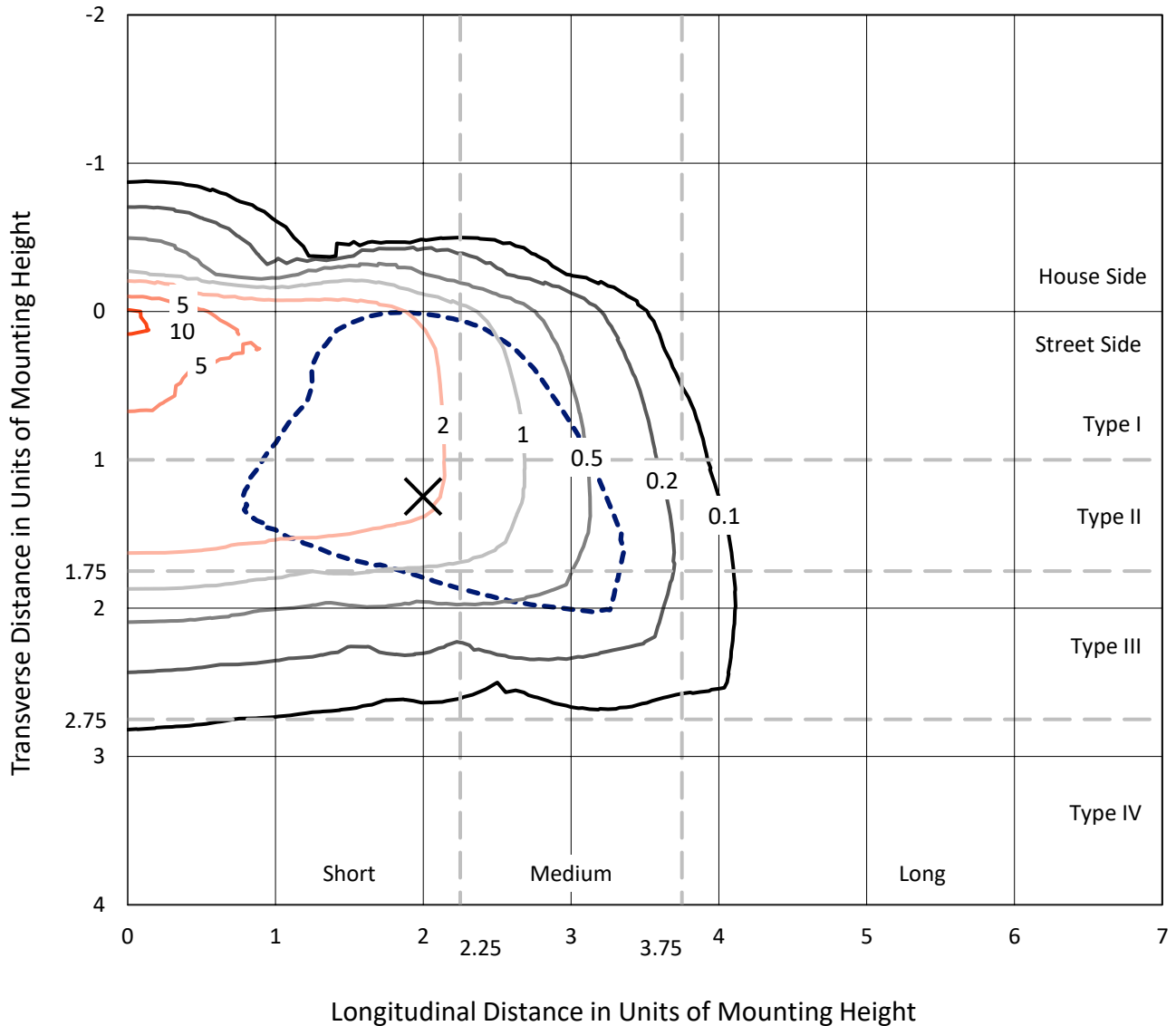
Lumens per Lamp: N/A
Luminaire Lumens: 23345.6 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 244.9
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

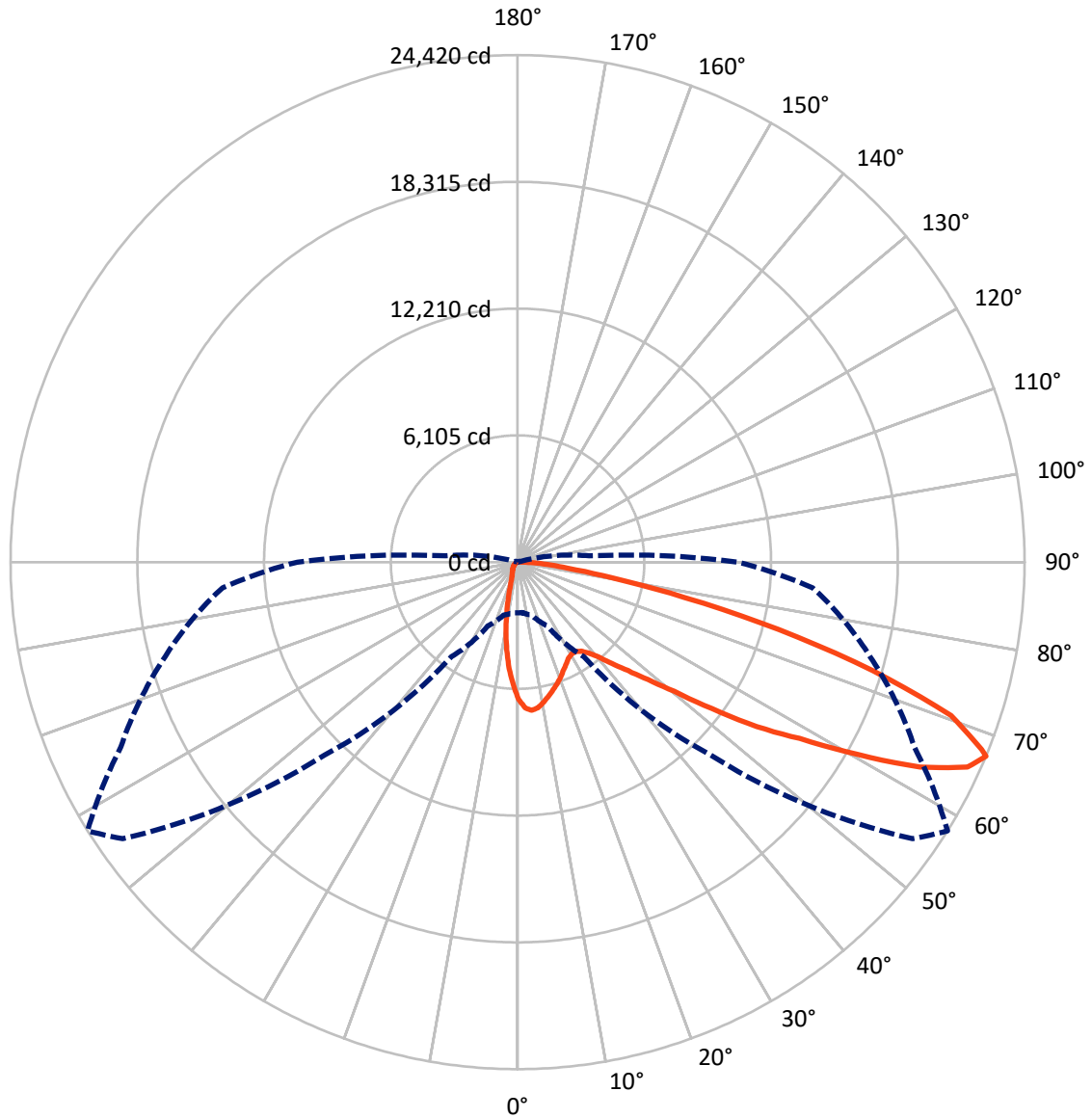
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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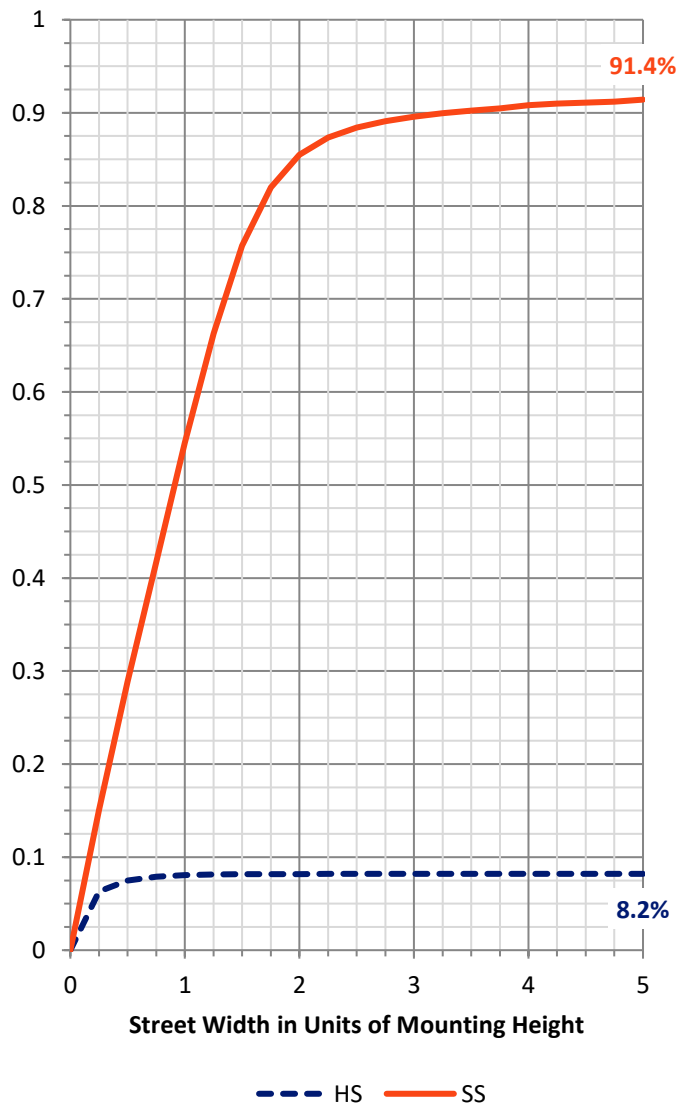
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1929.7	0.0	1929.7
	% Fixture	8.3	0.0	8.3
Street Side	Lumens	21415.9	0.0	21415.9
	% Fixture	91.7	0.0	91.7
Total	Lumens	23345.6	0.0	23345.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.8	2.2
10°-20°	1088.5	4.7
20°-30°	1444.2	6.2
30°-40°	2001.3	8.6
40°-50°	3265.5	14.0
50°-60°	5739.7	24.6
60°-70°	6357.1	27.2
70°-80°	2634.4	11.3
80°-90°	290.0	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°	23345.6	100.0
0°-180°	23345.6	100.0

Coefficient of Utilization



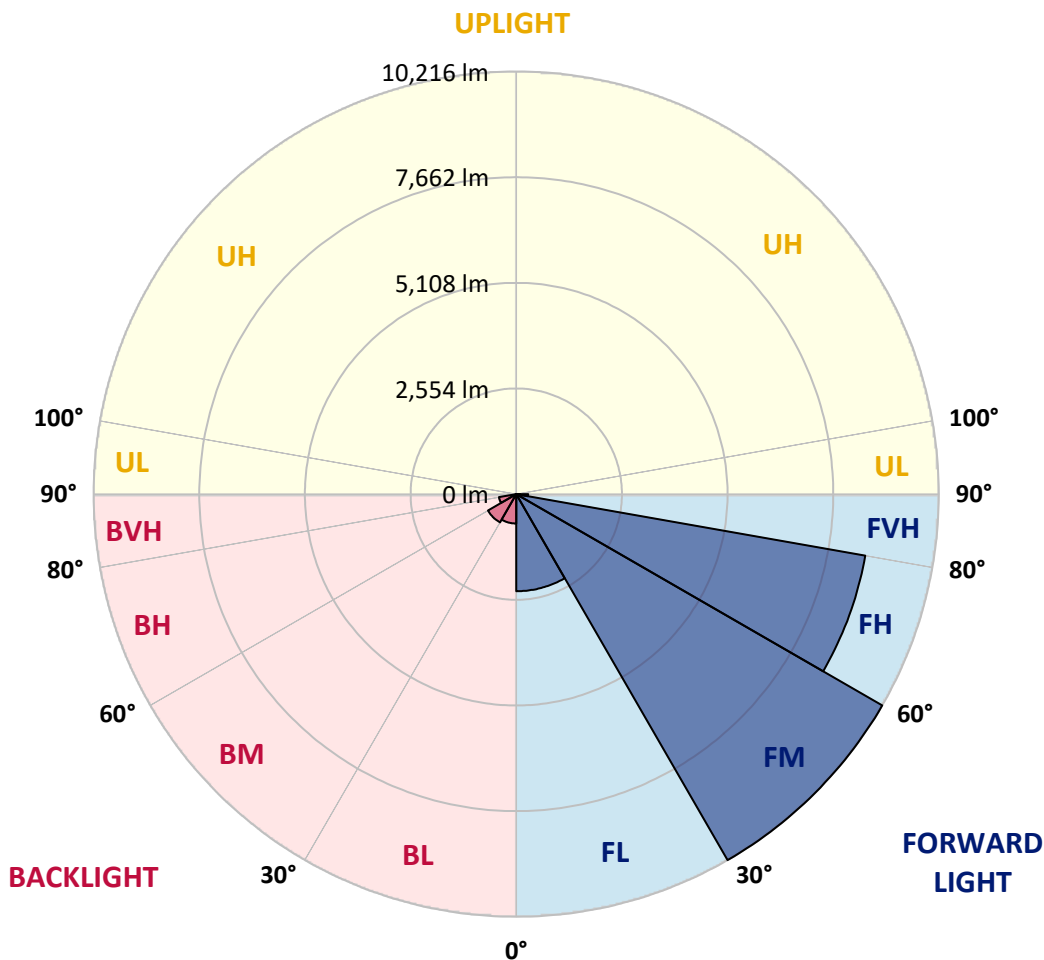
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2346.9	10.1			
FM (30°-60°)	10216.5	43.8			
FH (60°-80°)	8567.3	36.7			G4/12000
FVH (80°-90°)	285.2	1.2			G3/500
BL (0°-30°)	710.7	3.0	B2/1000		
BM (30°-60°)	789.9	3.4	B1/1000		
BH (60°-80°)	424.3	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°	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1
2.5°	7196.8	7221.6	7243.3	7203.0	7237.1	7187.5	7060.4	7032.5	7010.8	6821.8	6713.3
5°	7193.7	7165.8	7187.5	7206.1	7159.6	7196.8	7165.8	7168.9	7085.2	6914.7	6611.0
7.5°	6713.3	6700.9	6713.3	6803.2	6905.5	6986.0	7032.5	7079.0	7023.2	6769.1	6474.6
10°	6065.5	6127.5	6161.6	6322.8	6480.8	6629.6	6775.3	6862.1	6846.6	6744.3	6325.9
12.5°	5613.0	5594.4	5718.4	5823.8	5981.8	6282.5	6536.6	6617.2	6710.2	6567.6	6130.6
15°	5194.6	5145.0	5219.4	5402.2	5671.9	5910.5	6267.0	6387.9	6505.6	6542.8	6025.2
17.5°	4794.8	4819.6	4897.0	5061.3	5315.5	5650.2	5984.9	6158.5	6440.5	6391.0	5867.2
20°	4602.6	4655.3	4683.2	4766.9	4943.5	5278.3	5777.3	5916.7	6217.4	6387.9	5712.2
22.5°	4611.9	4611.9	4546.8	4596.4	4757.6	5017.9	5495.2	5650.2	6127.5	6226.7	5572.7
25°	4711.1	4649.1	4652.2	4593.3	4661.5	4804.1	5241.1	5430.1	5944.6	6242.2	5498.3
27.5°	4785.5	4773.1	4754.5	4739.0	4652.2	4673.9	5073.7	5228.7	5873.4	6223.6	5383.6
30°	5055.1	4999.3	4980.7	4946.6	4832.0	4726.6	4940.4	5135.7	5817.6	6267.0	5318.6
32.5°	5281.4	5290.7	5306.2	5207.0	5107.8	4847.5	4977.6	5132.6	5777.3	6366.2	5383.6
35°	5566.5	5606.8	5613.0	5582.0	5476.6	5219.4	5132.6	5265.9	5845.5	6542.8	5389.8
37.5°	6000.4	5957.0	6074.8	6087.2	6012.8	5671.9	5492.1	5544.8	6046.9	6824.9	5625.4
40°	6282.5	6335.2	6555.2	6691.6	6564.5	6254.6	6012.8	6003.5	6338.3	7268.1	5916.7
42.5°	6595.5	6713.3	6955.0	7249.5	7234.0	6945.7	6700.9	6660.6	6855.9	7909.7	6378.6
45°	7023.2	7128.6	7466.4	7909.7	8151.4	7906.6	7537.7	7457.1	7485.0	8783.7	7165.8
47.5°	7733.0	7705.1	8191.7	8628.7	9025.4	8836.4	8678.3	8442.8	8421.1	9812.7	8253.7
50°	8535.7	8529.5	8963.4	9459.4	9918.1	10286.9	10023.4	9766.2	9772.4	11210.5	9533.7
52.5°	9298.2	9419.1	9887.1	10379.9	11167.1	11563.8	11818.0	11715.7	11222.9	12459.6	10903.7
55°	9701.1	9806.5	10271.4	11120.6	12363.5	13383.2	14071.3	13984.5	13033.0	13866.7	12255.0
57.5°	9319.9	9391.2	10020.3	11133.0	13200.3	15475.3	16135.4	16027.0	14905.0	14942.2	13888.4
60°	7723.7	7835.3	8771.3	10076.1	12874.9	17087.0	18977.6	18813.3	16609.7	16302.8	14939.1
62.5°	5349.6	5423.9	6192.6	7816.7	11331.4	17648.0	21661.7	21751.6	18407.3	17362.8	15252.1
65°	3465.1	3458.9	3899.0	4999.3	8030.5	15949.5	23248.6	23806.5	20143.0	17524.0	15156.0
67°	2448.5	2439.2	2646.9	3390.7	5560.3	13141.4	23220.7	24420.1	21085.2	17570.5	14266.5
67.5°	2259.5	2250.2	2448.5	3118.0	5017.9	12220.9	22873.5	24104.0	21416.8	17505.4	13876.0
70°	1754.3	1729.5	1803.8	2147.9	2922.7	7903.5	19575.8	22142.1	20728.8	15881.3	11080.3
72.5°	1267.7	1295.5	1413.3	1763.6	2293.6	4252.4	14920.5	17905.2	17313.2	11969.9	7041.8
75°	883.3	908.1	1097.2	1438.1	2104.5	2578.7	10088.5	12986.5	12059.7	6607.9	3000.2
77.5°	461.8	492.8	700.5	1149.9	1912.3	1996.0	6028.3	8235.1	6391.0	2352.4	827.5
80°	213.9	229.4	350.2	815.1	1599.3	1754.3	3514.7	4580.9	2557.0	526.9	285.1
82.5°	93.0	102.3	161.2	468.0	1134.4	1534.2	2175.8	2402.0	926.7	170.5	176.7
85°	18.6	21.7	62.0	248.0	548.6	929.8	1528.0	1425.7	464.9	83.7	139.5
87.5°	0.0	0.0	15.5	71.3	148.8	275.8	647.8	647.8	142.6	43.4	52.7
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°	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1	6614.1
2.5°	6617.2	6505.6	6260.8	6034.5	5873.4	5690.5	5448.7	5340.3	5300.0	5244.2	5160.5
5°	6443.6	6307.3	5888.8	5467.3	5005.5	4655.3	4283.4	4066.4	3902.1	3799.9	3765.8
7.5°	6198.8	5919.8	5355.8	4680.1	4081.9	3561.2	2997.1	2615.9	2371.0	2271.9	2178.9
10°	6003.5	5640.9	4782.4	3942.4	3145.9	2383.4	1748.1	1413.3	1159.2	1063.1	1050.7
12.5°	5749.4	5315.5	4246.2	3189.3	2188.2	1419.5	967.0	839.9	768.6	756.3	747.0
15°	5538.6	5021.0	3737.9	2470.2	1416.4	886.4	753.2	722.2	703.6	697.4	700.5
17.5°	5396.0	4704.9	3217.2	1797.6	932.9	725.3	694.3	675.7	666.4	663.3	654.0
20°	5114.0	4438.3	2702.7	1258.4	728.4	669.5	644.7	629.2	619.9	616.8	613.7
22.5°	4952.8	4100.5	2188.2	877.1	647.8	607.5	588.9	576.5	561.0	551.7	548.6
25°	4791.7	3852.5	1729.5	681.9	588.9	561.0	533.1	517.6	492.8	480.4	477.3
27.5°	4602.6	3607.7	1332.7	592.0	530.0	502.1	474.2	449.4	418.4	406.0	399.8
30°	4494.1	3369.0	1004.2	530.0	486.6	449.4	415.3	384.3	350.2	328.5	322.3
32.5°	4438.3	3152.1	753.2	483.5	440.1	399.8	356.4	319.2	288.2	269.6	266.5
35°	4370.1	2941.3	592.0	440.1	396.7	353.3	309.9	272.7	241.8	226.3	220.1
37.5°	4441.4	2817.3	492.8	406.0	362.6	313.0	266.5	229.4	204.6	189.1	186.0
40°	4636.7	2715.1	427.7	375.0	328.5	275.8	232.5	195.3	173.6	161.2	155.0
42.5°	4937.3	2715.1	387.4	344.0	297.5	241.8	198.4	170.5	148.8	136.4	133.3
45°	5482.8	2798.8	353.3	313.0	260.3	207.7	170.5	142.6	120.9	108.5	105.4
47.5°	6248.4	2990.9	325.4	285.1	232.5	182.9	148.8	120.9	99.2	86.8	83.7
50°	7277.4	3427.9	297.5	251.1	207.7	158.1	124.0	96.1	77.5	65.1	62.0
52.5°	8560.5	4047.8	269.6	232.5	176.7	133.3	99.2	77.5	58.9	49.6	46.5
55°	9918.1	4807.2	235.6	207.7	151.9	111.6	80.6	58.9	43.4	37.2	34.1
57.5°	11284.9	5392.9	207.7	179.8	124.0	89.9	65.1	46.5	31.0	24.8	21.7
60°	12010.2	5448.7	179.8	148.8	99.2	71.3	49.6	34.1	21.7	15.5	12.4
62.5°	12121.7	4952.8	155.0	120.9	80.6	55.8	34.1	24.8	12.4	6.2	6.2
65°	11548.3	4128.4	133.3	96.1	62.0	40.3	24.8	15.5	6.2	3.1	0.0
67°	10618.5	3458.9	114.7	80.6	49.6	31.0	18.6	9.3	3.1	0.0	0.0
67.5°	10259.0	3273.0	108.5	74.4	46.5	27.9	15.5	9.3	3.1	0.0	0.0
70°	7962.3	2336.9	80.6	52.7	34.1	21.7	12.4	6.2	0.0	0.0	0.0
72.5°	4878.4	1366.8	62.0	37.2	24.8	15.5	9.3	3.1	0.0	0.0	0.0
75°	2045.6	471.1	52.7	27.9	18.6	9.3	6.2	3.1	0.0	0.0	0.0
77.5°	533.1	176.7	37.2	18.6	12.4	9.3	6.2	3.1	0.0	0.0	0.0
80°	217.0	80.6	24.8	12.4	12.4	9.3	6.2	3.1	0.0	0.0	0.0
82.5°	142.6	37.2	15.5	12.4	9.3	6.2	3.1	0.0	0.0	0.0	0.0
85°	108.5	21.7	9.3	9.3	6.2	3.1	0.0	0.0	0.0	0.0	0.0
87.5°	46.5	12.4	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)