

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: P483953

Luminaire Tested: **IFLD-L-SA7A-730-U-SL2-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483953
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-730-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2
distribution lens with House Side Shield
Light Source: (112) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

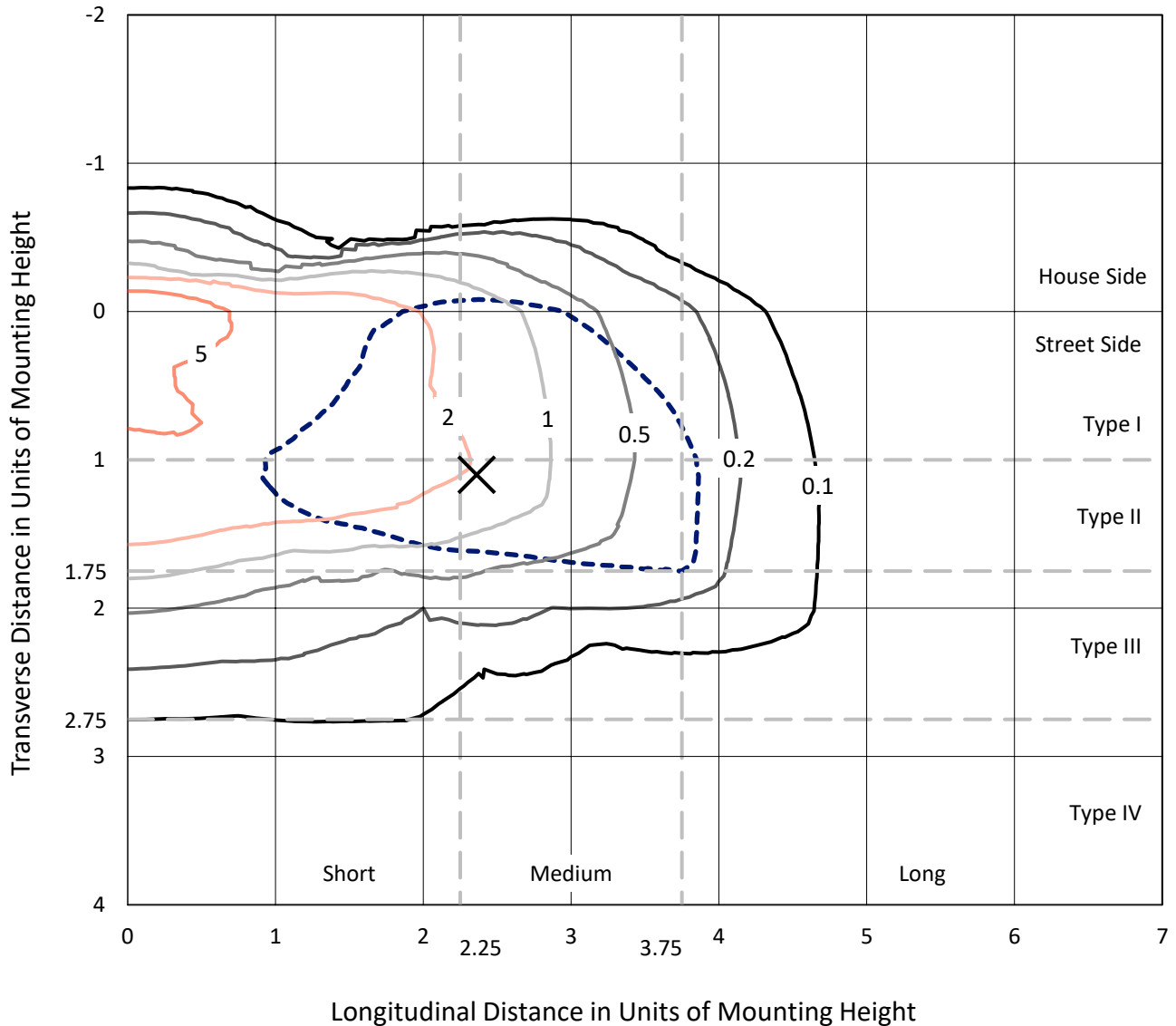
Lumens per Lamp: N/A
Luminaire Lumens: 23458.9 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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

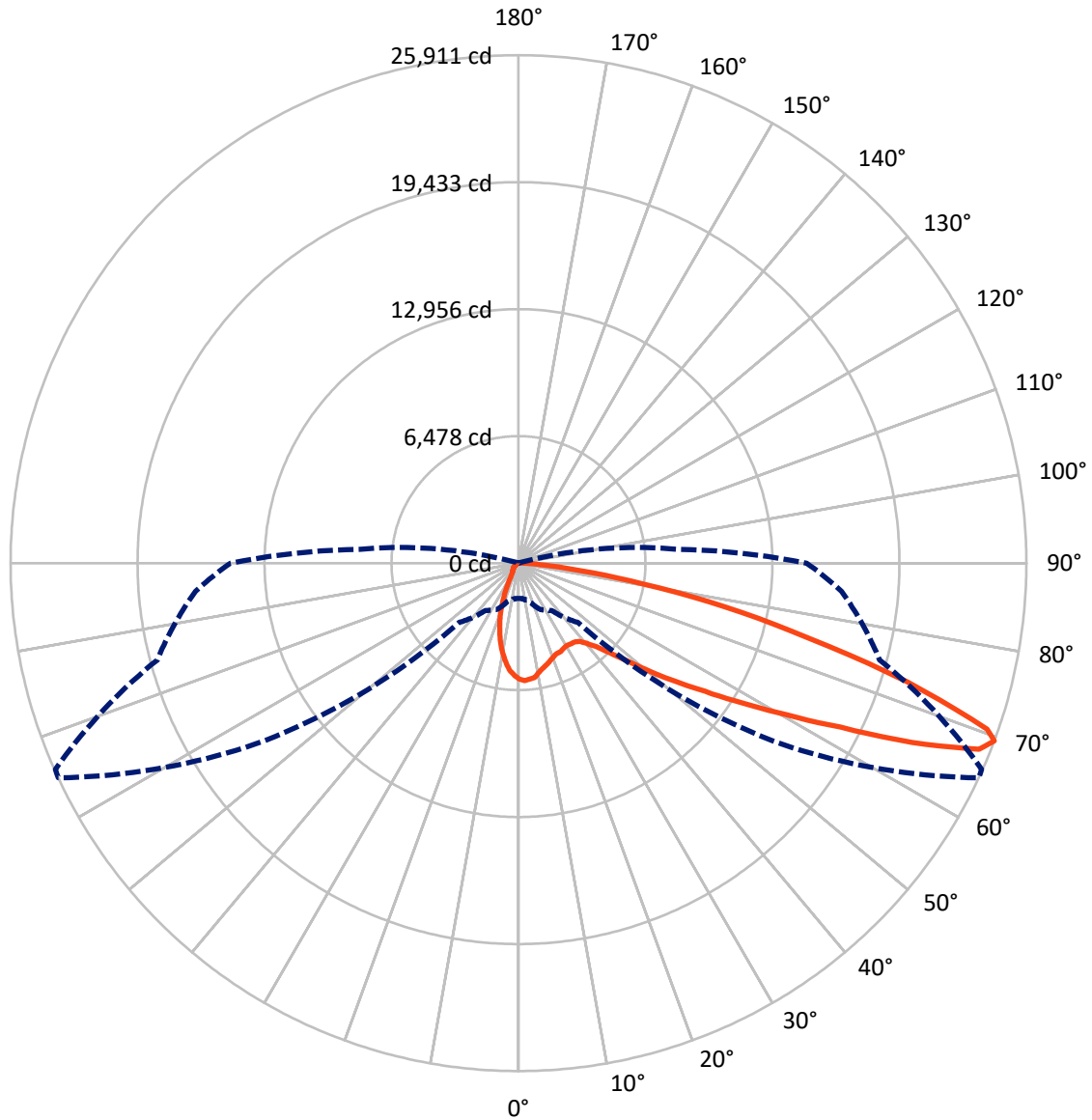
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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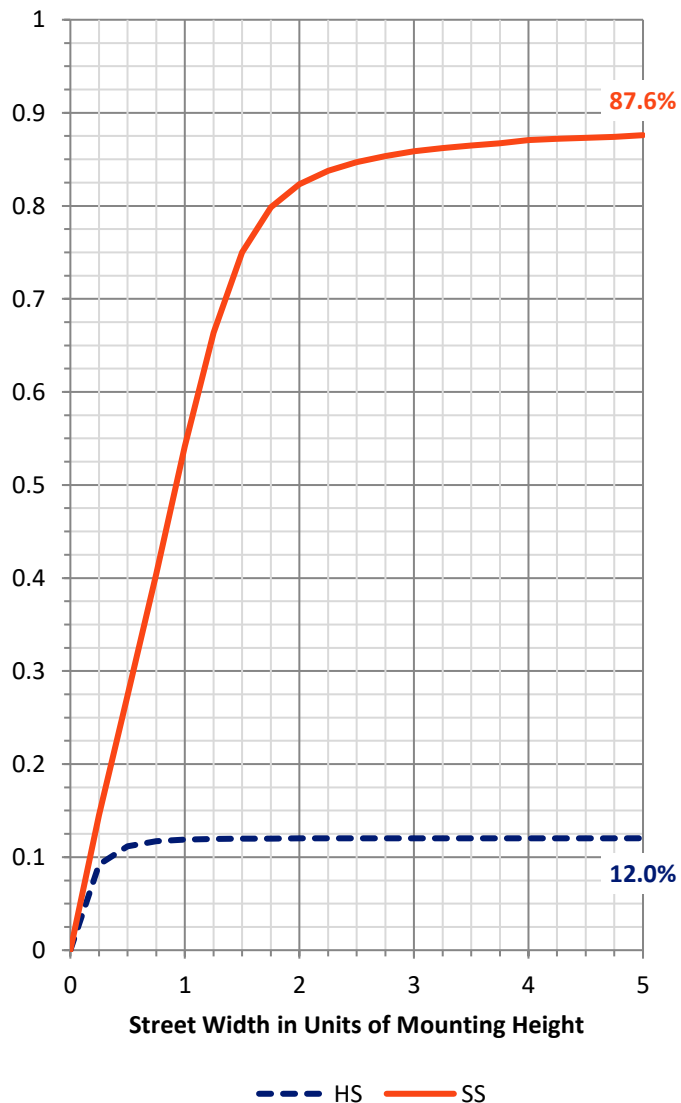
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2845.7	0.0	2845.7
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	20613.1	0.0	20613.1
	% Fixture	87.9	0.0	87.9
Total	Lumens	23458.9	0.0	23458.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.0	2.1
10°-20°	1059.0	4.5
20°-30°	1474.3	6.3
30°-40°	2089.3	8.9
40°-50°	3292.6	14.0
50°-60°	5342.8	22.8
60°-70°	5966.9	25.4
70°-80°	3360.0	14.3
80°-90°	389.9	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°	23458.9	100.0
0°-180°	23458.9	100.0

Coefficient of Utilization

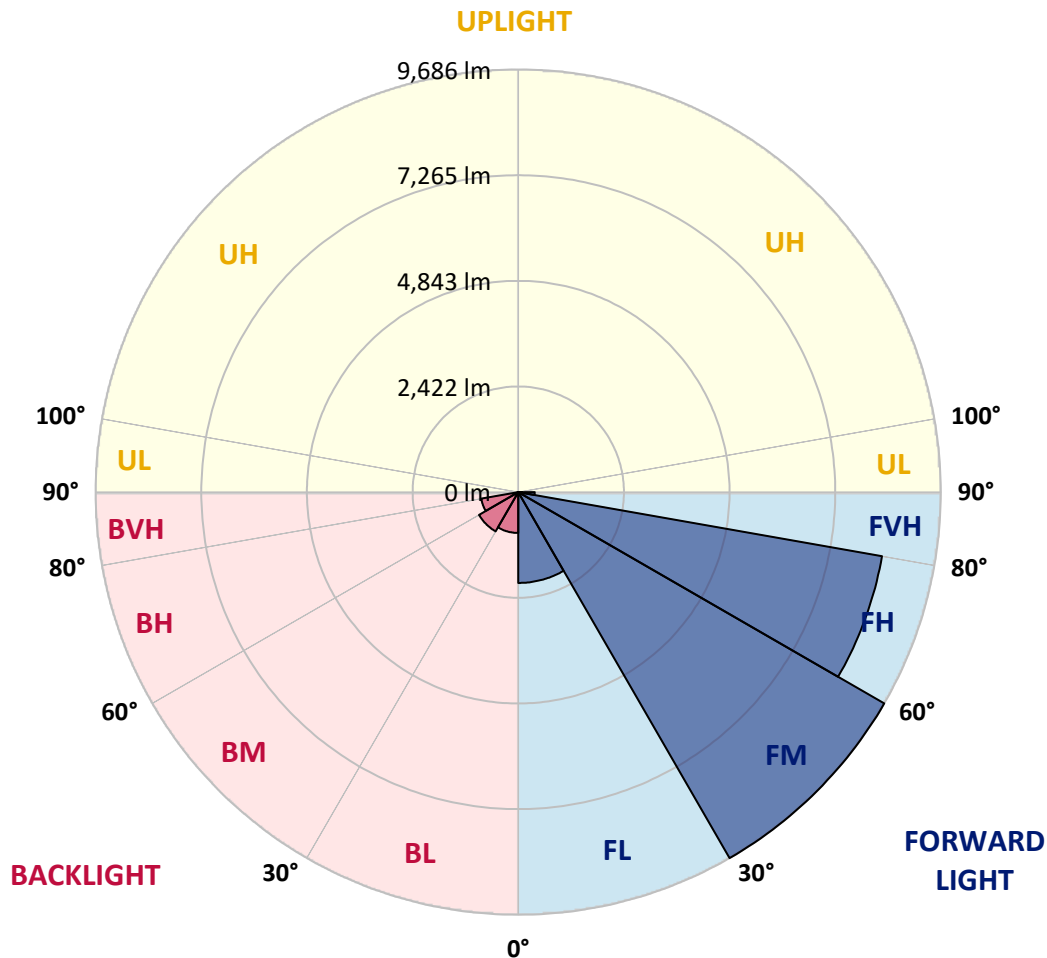


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2081.7	8.9			
FM (30°-60°)	9686.4	41.3			
FH (60°-80°)	8465.9	36.1			G4/12000
FVH (80°-90°)	379.1	1.6			G3/500
BL (0°-30°)	935.6	4.0	B2/1000		
BM (30°-60°)	1038.4	4.4	B2/2500		
BH (60°-80°)	861.0	3.7	B2/1000		G2/1000
BVH (80°-90°)	10.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5
2.5°	5696.2	5740.5	5753.1	5797.4	5819.6	5914.5	5968.3	6000.0	5984.1	6019.0	6022.1
5°	5291.1	5265.8	5332.2	5379.7	5481.0	5645.5	5813.3	5943.0	6003.1	6060.1	6050.6
7.5°	4857.6	4844.9	4911.4	5019.0	5110.7	5310.1	5579.1	5898.7	5886.0	6025.3	6066.4
10°	4560.1	4572.8	4594.9	4702.5	4838.6	5041.1	5376.5	5674.0	5740.5	6034.8	6117.1
12.5°	4287.9	4310.1	4351.2	4462.0	4620.2	4829.1	5155.0	5503.1	5604.4	5981.0	6145.5
15°	4199.3	4148.7	4231.0	4313.3	4477.8	4664.5	4939.8	5373.4	5417.7	5917.7	6193.0
17.5°	4126.6	4094.9	4132.9	4199.3	4373.4	4525.3	4784.8	5234.1	5316.4	5892.4	6186.7
20°	4148.7	4120.2	4136.1	4186.7	4265.8	4408.2	4648.7	5101.2	5189.8	5775.3	6177.2
22.5°	4212.0	4234.2	4205.7	4218.3	4243.6	4316.4	4575.9	5006.3	5082.2	5753.1	6231.0
25°	4496.8	4458.8	4420.9	4405.0	4256.3	4287.9	4553.8	5000.0	5053.8	5674.0	6186.7
27.5°	4794.3	4762.6	4746.8	4655.0	4452.5	4357.6	4556.9	4911.4	4984.1	5642.4	6132.9
30°	5155.0	5196.2	5132.9	5022.1	4740.5	4506.3	4591.7	4867.1	4968.3	5522.1	6098.1
32.5°	5534.8	5556.9	5588.6	5506.3	5142.4	4731.0	4696.2	4908.2	4914.5	5522.1	6019.0
35°	5965.2	5933.5	6015.8	6022.1	5702.5	5129.7	4895.5	4936.7	5003.1	5496.8	5990.5
37.5°	6335.4	6389.2	6484.1	6636.0	6306.9	5693.0	5205.7	5069.6	5098.1	5613.9	6012.6
40°	6740.5	6794.3	7009.5	7161.3	6974.6	6325.9	5677.2	5379.7	5401.9	5787.9	6126.5
42.5°	7186.7	7291.1	7547.4	7813.2	7762.6	7129.7	6284.8	5835.4	5825.9	6221.5	6360.7
45°	7791.1	7930.3	8208.8	8515.8	8560.1	8050.6	7094.9	6515.8	6547.4	6787.9	6844.9
47.5°	8632.9	8626.5	8898.7	9240.4	9496.8	9006.3	8063.2	7430.3	7427.2	7683.5	7563.2
50°	9446.1	9449.3	9522.1	9917.7	10582.2	10332.2	9262.6	8645.5	8610.7	8737.3	8544.3
52.5°	9822.7	9778.4	9724.6	10202.5	11417.7	12003.1	10781.6	10022.1	9993.6	9917.7	9867.0
55°	9427.2	9443.0	9439.8	9936.6	11857.5	13765.7	12730.9	11537.9	11490.4	11253.1	11322.7
57.5°	8158.2	8107.5	8218.3	8993.6	11354.4	14968.3	15518.9	13449.3	13325.9	12537.9	12379.7
60°	6072.7	6088.6	6180.3	7094.9	10104.4	15221.4	18186.6	15692.9	15161.3	13443.0	13224.6
62.5°	4240.5	4208.8	4243.6	4756.3	7224.6	14208.8	19990.4	18420.8	17908.1	14471.4	14344.8
65°	3034.8	2993.7	3132.9	3446.2	4338.6	10863.9	20246.7	22053.7	21594.8	16113.8	15810.0
67.5°	2183.5	2177.2	2338.6	2908.2	3082.3	6256.3	18348.0	25344.8	25066.3	18063.2	16702.4
69°	1807.0	1810.1	1965.2	2604.4	2943.0	4272.1	15787.9	25911.2	25860.6	19069.5	16534.7
70°	1575.9	1588.6	1769.0	2424.0	2886.1	3512.6	13610.7	25354.3	25303.6	19265.7	15980.9
72.5°	971.5	981.0	1218.3	1943.0	2743.7	2867.1	8139.2	20743.5	20917.6	18367.0	13768.9
75°	465.2	468.4	639.2	1405.1	2645.6	2718.3	4360.7	15306.9	15674.0	14829.0	10759.4
77.5°	246.8	246.8	307.0	746.8	2142.4	2556.9	2588.6	10797.4	11101.2	9376.5	6117.1
80°	123.4	126.6	186.7	389.2	1329.1	2506.3	2022.1	6439.8	6604.4	3825.9	1905.1
82.5°	47.5	50.6	88.6	234.2	689.9	2117.1	1775.3	3167.7	3126.6	895.6	465.2
85°	6.3	6.3	31.6	139.2	294.3	933.5	1465.2	1322.8	1278.5	196.2	224.7
87.5°	0.0	0.0	6.3	41.1	88.6	272.2	566.5	363.9	405.1	53.8	110.8
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°	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5	5914.5
2.5°	6006.3	5939.8	5838.6	5740.5	5636.0	5509.5	5370.2	5319.6	5231.0	5224.7	5275.3
5°	6000.0	5892.4	5715.2	5506.3	5208.8	4984.1	4740.5	4563.3	4427.2	4338.6	4360.7
7.5°	6031.6	5901.9	5594.9	5145.5	4762.6	4316.4	3939.8	3680.4	3443.0	3325.9	3313.3
10°	5981.0	5806.9	5357.6	4727.8	4164.5	3541.1	2990.5	2642.4	2288.0	2158.2	2164.5
12.5°	6009.5	5765.8	5101.2	4297.4	3522.1	2712.0	2053.8	1579.1	1246.8	1139.2	1126.6
15°	6028.4	5677.2	4854.4	3781.6	2810.1	1848.1	1189.9	895.6	791.1	772.1	769.0
17.5°	5955.7	5569.6	4506.3	3272.1	2082.3	1123.4	791.1	731.0	712.0	699.4	693.0
20°	5952.5	5506.3	4205.7	2750.0	1389.2	765.8	683.5	661.4	632.9	623.4	623.4
22.5°	5898.7	5373.4	3844.9	2177.2	886.1	658.2	613.9	579.1	547.5	534.8	531.6
25°	5882.9	5218.3	3506.3	1636.1	674.0	588.6	544.3	493.7	455.7	436.7	427.2
27.5°	5838.6	5085.4	3164.5	1151.9	588.6	525.3	468.4	414.6	370.3	341.8	338.6
30°	5680.3	4946.2	2784.8	797.5	534.8	465.2	401.9	338.6	294.3	275.3	269.0
32.5°	5613.9	4816.4	2370.2	613.9	487.3	411.4	338.6	281.6	246.8	227.8	224.7
35°	5534.8	4626.6	1968.3	534.8	443.0	357.6	284.8	237.3	208.9	193.0	193.0
37.5°	5544.3	4474.7	1591.8	484.2	395.6	307.0	243.7	202.5	177.2	161.4	161.4
40°	5515.8	4354.4	1237.3	439.9	351.3	262.7	205.7	170.9	148.7	132.9	129.7
42.5°	5645.5	4322.8	933.5	401.9	307.0	224.7	177.2	145.6	123.4	104.4	104.4
45°	5863.9	4373.4	727.8	367.1	262.7	193.0	151.9	120.3	98.1	85.4	82.3
47.5°	6446.2	4572.8	569.6	338.6	224.7	167.7	126.6	98.1	79.1	66.5	63.3
50°	7291.1	5019.0	484.2	297.5	189.9	142.4	104.4	75.9	63.3	50.6	47.5
52.5°	8493.6	5769.0	439.9	262.7	158.2	117.1	82.3	60.1	47.5	38.0	34.8
55°	9803.7	6705.7	398.7	221.5	132.9	94.9	66.5	47.5	34.8	25.3	22.2
57.5°	10825.9	7515.8	363.9	183.5	107.6	75.9	50.6	34.8	25.3	15.8	12.7
60°	11943.0	8085.4	319.6	145.6	88.6	57.0	38.0	25.3	19.0	9.5	9.5
62.5°	13094.9	8753.1	262.7	113.9	69.6	44.3	28.5	19.0	12.7	3.2	3.2
65°	14696.1	9275.3	202.5	88.6	53.8	31.6	22.2	15.8	6.3	0.0	0.0
67.5°	15148.6	9018.9	148.7	69.6	38.0	22.2	15.8	9.5	3.2	0.0	0.0
69°	14696.1	8123.4	129.7	60.1	31.6	19.0	12.7	6.3	3.2	0.0	0.0
70°	13870.2	7427.2	113.9	50.6	28.5	19.0	9.5	6.3	3.2	0.0	0.0
72.5°	11601.2	5696.2	88.6	38.0	22.2	15.8	9.5	6.3	0.0	0.0	0.0
75°	8509.4	3519.0	66.5	28.5	19.0	12.7	9.5	6.3	0.0	0.0	0.0
77.5°	4560.1	1284.8	47.5	19.0	12.7	9.5	9.5	6.3	0.0	0.0	0.0
80°	1250.0	379.7	34.8	12.7	9.5	6.3	6.3	3.2	0.0	0.0	0.0
82.5°	341.8	98.1	22.2	12.7	9.5	6.3	3.2	0.0	0.0	0.0	0.0
85°	183.5	38.0	12.7	9.5	6.3	3.2	0.0	0.0	0.0	0.0	0.0
87.5°	94.9	12.7	9.5	6.3	6.3	3.2	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)