

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: P480070

Luminaire Tested: **IFLD-S-SA3D-735-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480070
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

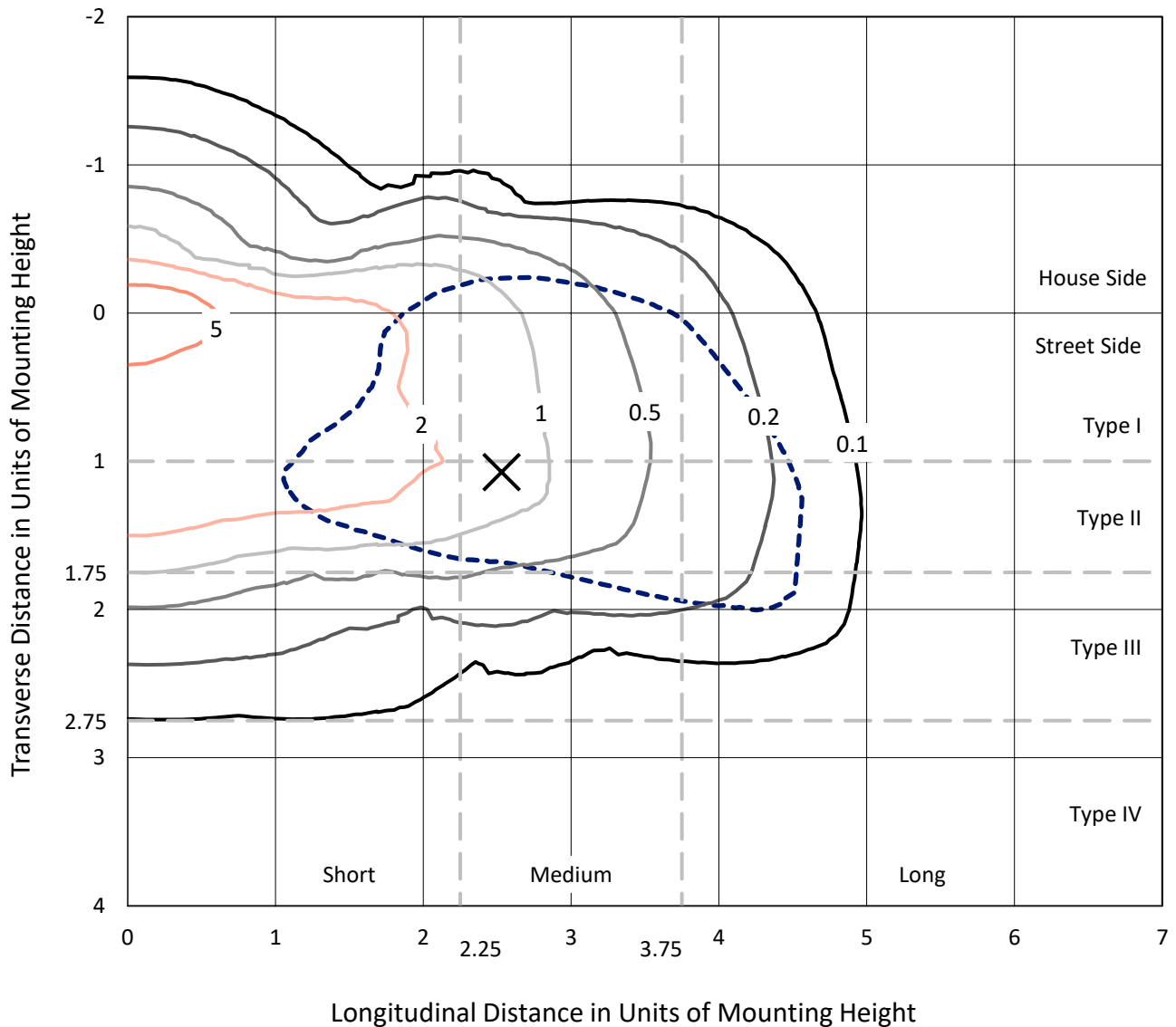
Lumens per Lamp: N/A
Luminaire Lumens: 22920.1 lumens
Efficiency: N/A
Efficacy: 124.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 184.1
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

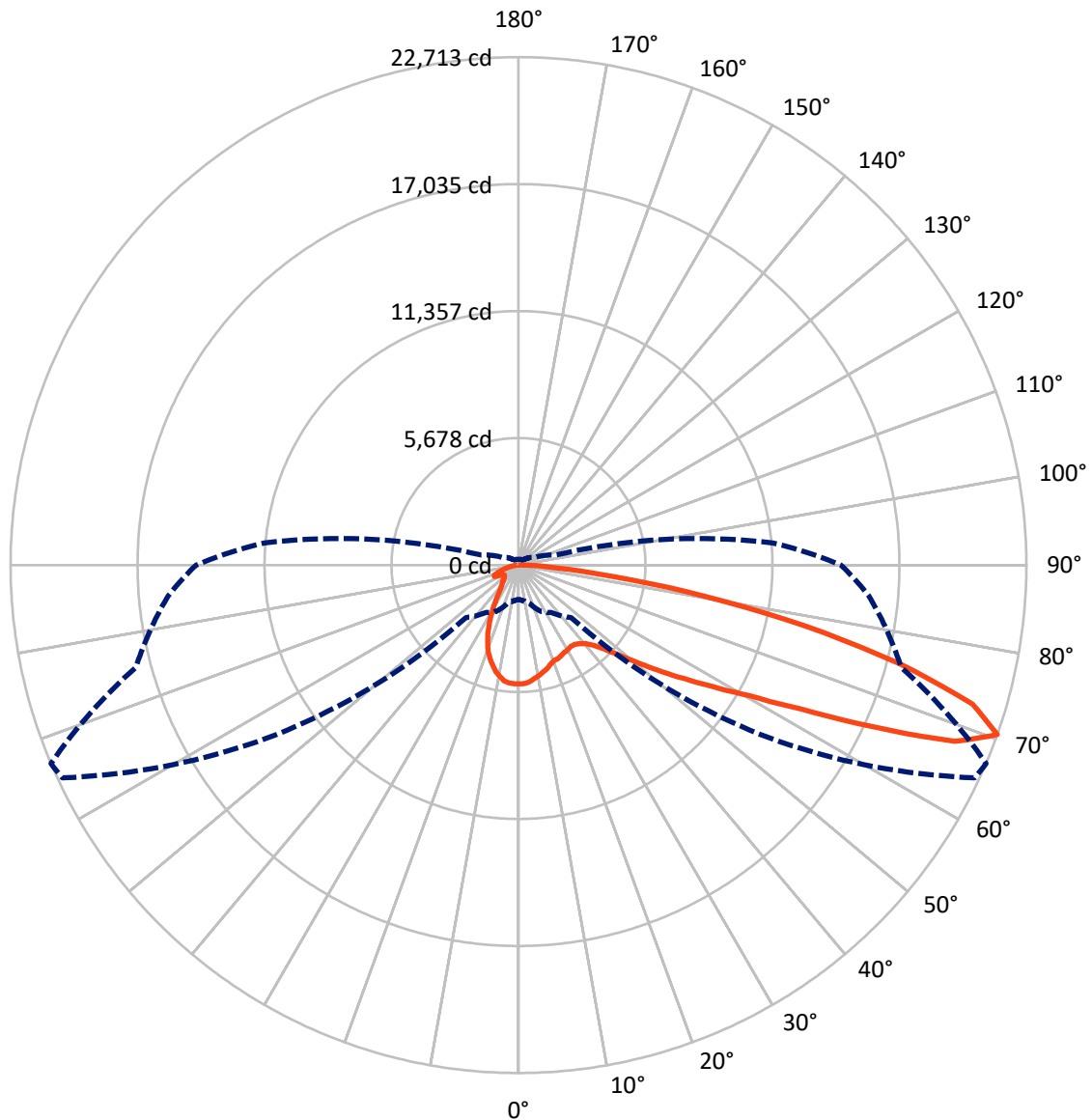
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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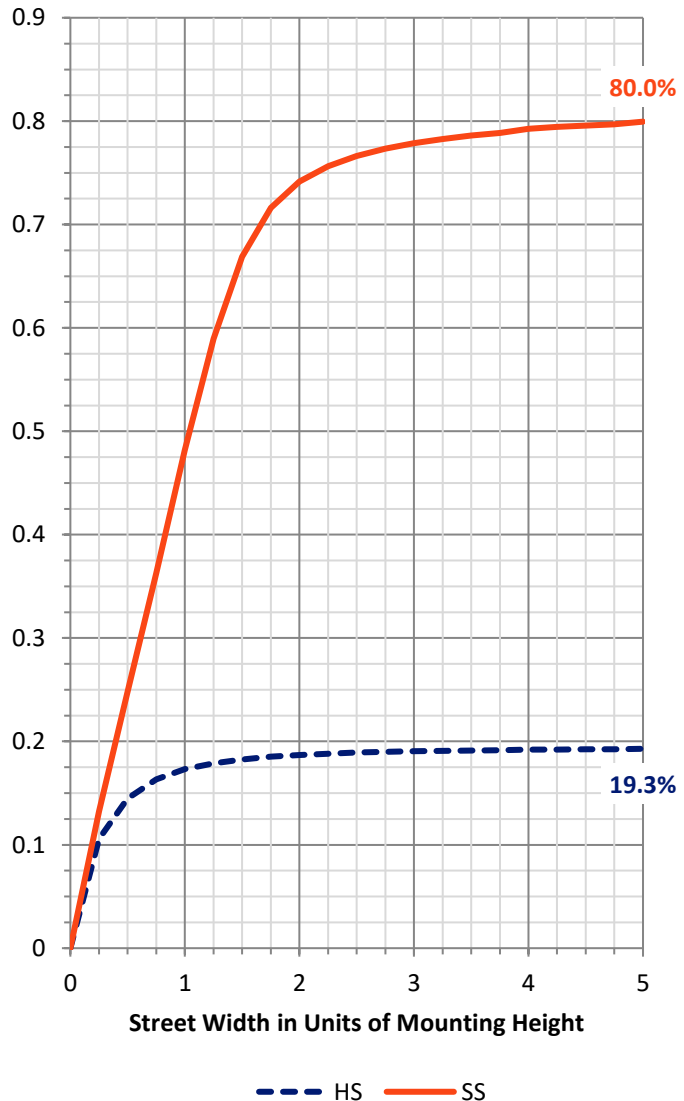
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4463.9	0.0	4463.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18456.2	0.0	18456.2
	% Fixture	80.5	0.0	80.5
Total	Lumens	22920.1	0.0	22920.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.9	2.0
10°-20°	1108.8	4.8
20°-30°	1497.3	6.5
30°-40°	2003.5	8.7
40°-50°	2946.1	12.9
50°-60°	4592.3	20.0
60°-70°	5656.9	24.7
70°-80°	3997.1	17.4
80°-90°	655.1	2.9
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°	22920.1	100.0
0°-180°	22920.1	100.0

Coefficient of Utilization

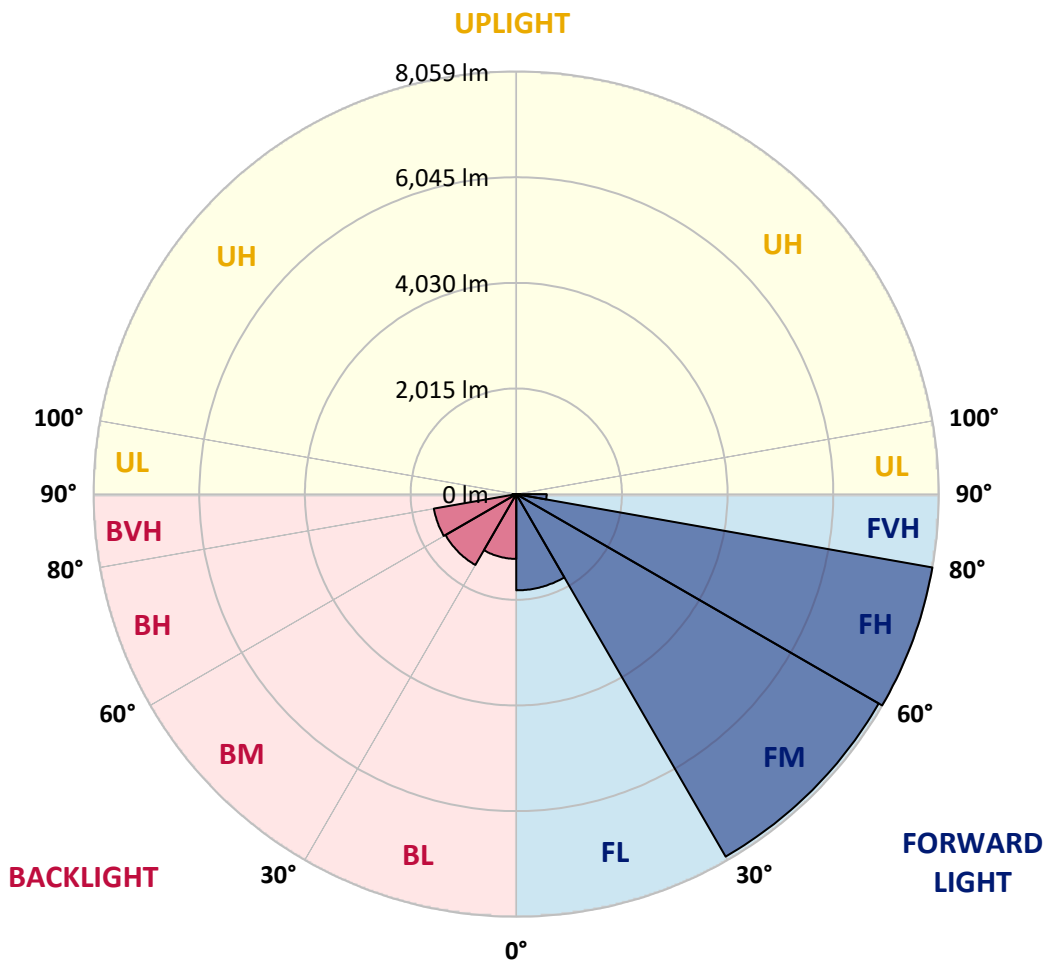


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1834.6	8.0			
FM (30°-60°)	7982.6	34.8			
FH (60°-80°)	8059.5	35.2			G4/12000
FVH (80°-90°)	579.6	2.5			G4/750
BL (0°-30°)	1234.4	5.4	B3/2500		
BM (30°-60°)	1559.3	6.8	B2/2500		
BH (60°-80°)	1594.6	7.0	B3/2500		G3/2500
BVH (80°-90°)	75.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9
2.5°	4940.5	4996.3	5016.6	5047.1	5125.8	5184.1	5219.6	5260.2	5308.5	5349.1	5374.4
5°	4595.4	4625.9	4674.1	4707.1	4806.0	4963.4	5069.9	5242.5	5237.4	5300.8	5397.3
7.5°	4260.5	4290.9	4313.8	4379.7	4521.8	4663.9	4859.3	5138.4	5118.1	5265.3	5415.0
10°	4052.4	4029.6	4037.2	4148.8	4260.5	4420.3	4666.5	4950.7	5024.3	5252.6	5465.8
12.5°	3857.0	3831.6	3892.5	3963.6	4100.6	4245.2	4539.6	4795.9	4907.5	5207.0	5488.6
15°	3735.2	3717.4	3793.6	3824.0	3986.4	4159.0	4367.0	4679.2	4801.0	5151.1	5453.1
17.5°	3666.7	3681.9	3709.8	3775.8	3879.8	4027.0	4255.4	4600.5	4653.8	5082.6	5445.5
20°	3679.4	3697.1	3699.7	3727.6	3798.6	3912.8	4146.3	4516.8	4552.3	5069.9	5465.8
22.5°	3780.9	3755.5	3765.7	3747.9	3768.2	3857.0	4062.5	4405.1	4542.1	4963.4	5422.6
25°	3933.1	3897.6	3892.5	3831.6	3793.6	3818.9	4047.3	4377.2	4466.0	4930.4	5420.1
27.5°	4202.1	4148.8	4148.8	4057.5	3902.7	3862.1	4004.2	4331.5	4410.2	4899.9	5361.7
30°	4460.9	4460.9	4463.5	4334.1	4161.5	3961.0	4021.9	4313.8	4364.5	4808.6	5283.1
32.5°	4775.6	4768.0	4755.3	4691.8	4425.4	4126.0	4108.2	4290.9	4316.3	4778.1	5260.2
35°	5082.6	5062.3	5161.3	5105.5	4833.9	4448.2	4197.0	4301.1	4356.9	4732.4	5189.2
37.5°	5313.5	5326.2	5531.8	5567.3	5333.8	4813.6	4448.2	4402.6	4455.9	4798.4	5189.2
40°	5613.0	5663.7	5856.6	5975.8	5833.7	5295.8	4846.6	4572.6	4610.6	4945.6	5300.8
42.5°	6006.3	6049.4	6295.6	6450.3	6409.7	5909.8	5239.9	4927.8	4897.4	5191.7	5468.3
45°	6526.5	6534.1	6782.8	6995.9	7079.6	6551.8	5864.2	5377.0	5351.6	5615.5	5775.4
47.5°	7145.6	7138.0	7292.8	7521.2	7747.0	7318.2	6582.3	6059.6	5968.2	6222.0	6285.4
50°	7744.5	7711.5	7747.0	8038.8	8472.7	8277.3	7455.2	6894.4	6803.1	6942.6	7051.7
52.5°	8074.3	8114.9	8018.5	8404.2	9244.1	9411.6	8612.3	7891.6	7813.0	7881.5	8071.8
55°	7843.4	7927.2	7863.7	8229.1	9581.6	10794.5	10109.4	9046.2	8944.7	8919.3	9231.4
57.5°	6861.4	7013.7	7026.4	7604.9	9464.9	11865.4	12215.6	10408.8	10256.6	9997.8	10320.0
60°	5267.9	5420.1	5536.8	6222.0	8465.1	12504.8	14656.6	12347.5	11845.1	11175.2	11368.0
62.5°	3692.1	3796.1	3912.8	4334.1	6526.5	12129.3	16767.8	15077.9	14151.7	12416.0	12657.1
65°	2689.8	2771.0	2890.2	3138.9	4009.3	10035.8	17747.3	18320.8	17442.8	13994.3	13963.9
67.5°	2024.9	2075.7	2233.0	2631.4	2778.6	6199.1	16732.3	21746.4	21035.9	15747.8	15014.4
70°	1532.7	1575.8	1723.0	2268.5	2595.9	3324.1	13200.1	22510.2	22713.2	17714.3	15719.8
72.5°	1055.6	1103.8	1268.8	1890.4	2471.5	2636.5	8285.0	20449.8	21218.6	18523.8	14963.7
75°	647.1	680.1	776.5	1433.7	2453.8	2578.1	4559.9	16757.7	17572.2	17115.5	13091.0
77.5°	456.8	454.2	472.0	839.9	2126.4	2593.3	2811.6	12279.0	13070.7	12613.9	8883.8
80°	332.4	335.0	352.7	502.4	1443.8	2636.5	2215.2	8224.1	8460.0	6577.2	3504.3
82.5°	200.5	210.6	253.8	340.0	867.8	2380.2	2047.8	4570.0	4275.7	2111.2	964.3
85°	106.6	106.6	149.7	215.7	461.8	1776.3	1971.6	2174.6	1821.9	654.7	357.8
87.5°	25.4	25.4	43.1	86.3	185.2	850.1	1344.9	865.3	692.7	220.8	147.2
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°	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9	5305.9
2.5°	5364.3	5333.8	5371.9	5295.8	5234.9	5237.4	5143.5	5138.4	5125.8	5059.8	5082.6
5°	5425.2	5399.8	5356.7	5272.9	5138.4	5004.0	4922.8	4818.7	4775.6	4752.7	4762.9
7.5°	5483.5	5437.9	5313.5	5196.8	4988.7	4735.0	4587.8	4448.2	4270.6	4250.3	4214.8
10°	5498.8	5402.3	5242.5	4993.8	4717.2	4435.6	4100.6	3841.8	3704.8	3598.2	3557.6
12.5°	5475.9	5435.3	5128.3	4808.6	4389.9	3948.4	3557.6	3192.2	2938.4	2806.5	2771.0
15°	5473.4	5402.3	5001.4	4526.9	3991.5	3415.5	2859.8	2420.8	2154.3	2045.2	2045.2
17.5°	5475.9	5305.9	4851.7	4242.7	3522.1	2743.0	2131.5	1771.2	1624.0	1608.8	1621.5
20°	5425.2	5234.9	4694.4	3907.8	2933.4	2060.5	1547.9	1400.7	1400.7	1421.0	1428.6
22.5°	5379.5	5128.3	4445.7	3494.1	2334.5	1492.1	1258.6	1215.5	1263.7	1299.2	1314.4
25°	5316.1	5039.5	4192.0	3065.3	1776.3	1202.8	1093.7	1103.8	1149.5	1212.9	1207.9
27.5°	5224.7	4884.7	3890.0	2568.0	1322.0	1037.8	1009.9	1015.0	1063.2	1091.1	1086.1
30°	5120.7	4727.4	3610.9	2073.1	1048.0	951.6	949.0	961.7	969.3	984.6	982.0
32.5°	4988.7	4519.3	3314.0	1611.3	944.0	903.4	893.2	885.6	893.2	890.7	883.1
35°	4894.8	4407.6	3012.0	1228.2	885.6	860.2	852.6	839.9	829.8	814.5	812.0
37.5°	4869.5	4296.0	2694.8	1002.3	839.9	827.2	801.9	779.0	766.3	758.7	753.6
40°	4854.2	4222.4	2385.3	880.5	801.9	789.2	758.7	728.3	715.6	708.0	710.5
42.5°	4907.5	4181.8	2070.6	819.6	768.9	746.0	713.0	677.5	675.0	669.9	677.5
45°	5095.3	4232.6	1778.8	776.5	735.9	697.8	654.7	636.9	634.4	629.3	634.4
47.5°	5521.6	4359.4	1530.1	748.6	700.4	667.4	621.7	596.3	593.8	591.2	591.2
50°	6110.3	4750.2	1322.0	715.6	677.5	631.8	588.7	560.8	555.7	545.6	545.6
52.5°	7034.0	5407.4	1197.7	697.8	636.9	598.9	553.2	522.7	510.0	499.9	499.9
55°	8074.3	6222.0	1174.9	667.4	593.8	558.3	517.7	487.2	474.5	461.8	456.8
57.5°	9259.4	7300.4	1337.3	647.1	563.3	517.7	472.0	444.1	433.9	421.2	416.2
60°	10363.2	8376.3	1842.2	616.6	535.4	479.6	433.9	406.0	393.3	380.6	380.6
62.5°	11639.5	9708.5	2697.4	616.6	510.0	439.0	393.3	373.0	365.4	352.7	350.2
65°	13149.4	11086.4	3321.6	654.7	502.4	403.5	355.3	335.0	327.3	319.7	317.2
67.5°	14298.8	11878.1	2857.2	756.2	535.4	373.0	317.2	304.5	299.4	291.8	286.7
70°	14420.6	11395.9	1723.0	817.1	568.4	342.6	284.2	271.5	271.5	263.9	258.8
72.5°	13327.0	10112.0	1159.6	728.3	515.1	307.0	251.2	241.1	236.0	230.9	228.4
75°	11152.3	8576.8	916.0	581.1	395.9	253.8	218.2	208.1	200.5	197.9	192.9
77.5°	7490.7	5574.9	677.5	454.2	291.8	205.5	182.7	172.6	164.9	162.4	154.8
80°	2877.5	2123.9	436.5	329.9	205.5	162.4	144.6	134.5	129.4	121.8	116.7
82.5°	847.5	687.7	243.6	203.0	132.0	111.7	104.0	96.4	88.8	81.2	78.7
85°	350.2	314.7	149.7	106.6	81.2	66.0	60.9	53.3	45.7	40.6	35.5
87.5°	162.4	134.5	68.5	40.6	27.9	15.2	7.6	2.5	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)