

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: P480246

Luminaire Tested: **IFLD-M-SA4D-827-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480246
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-827-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

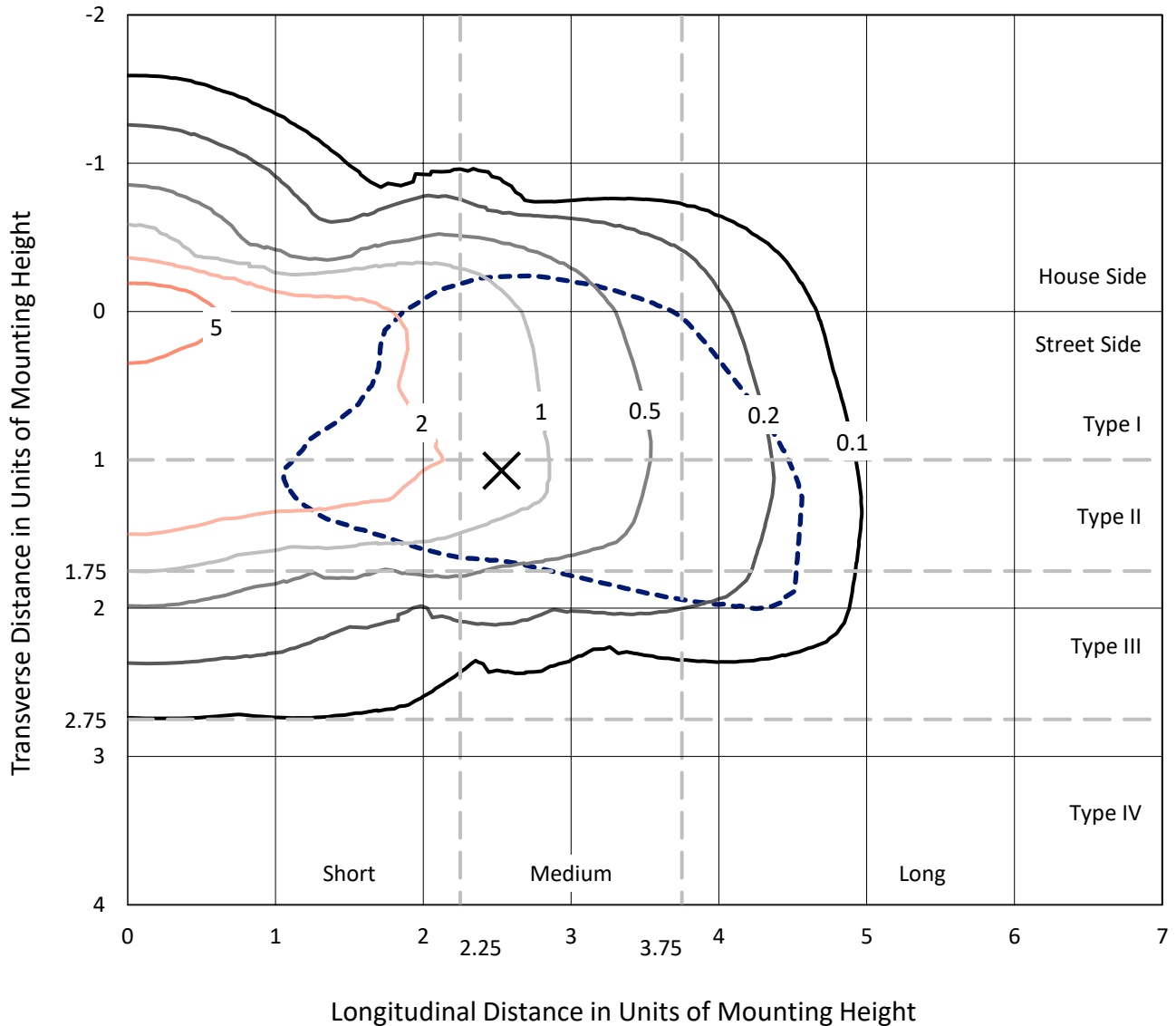
Lumens per Lamp: N/A
Luminaire Lumens: 22929.2 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

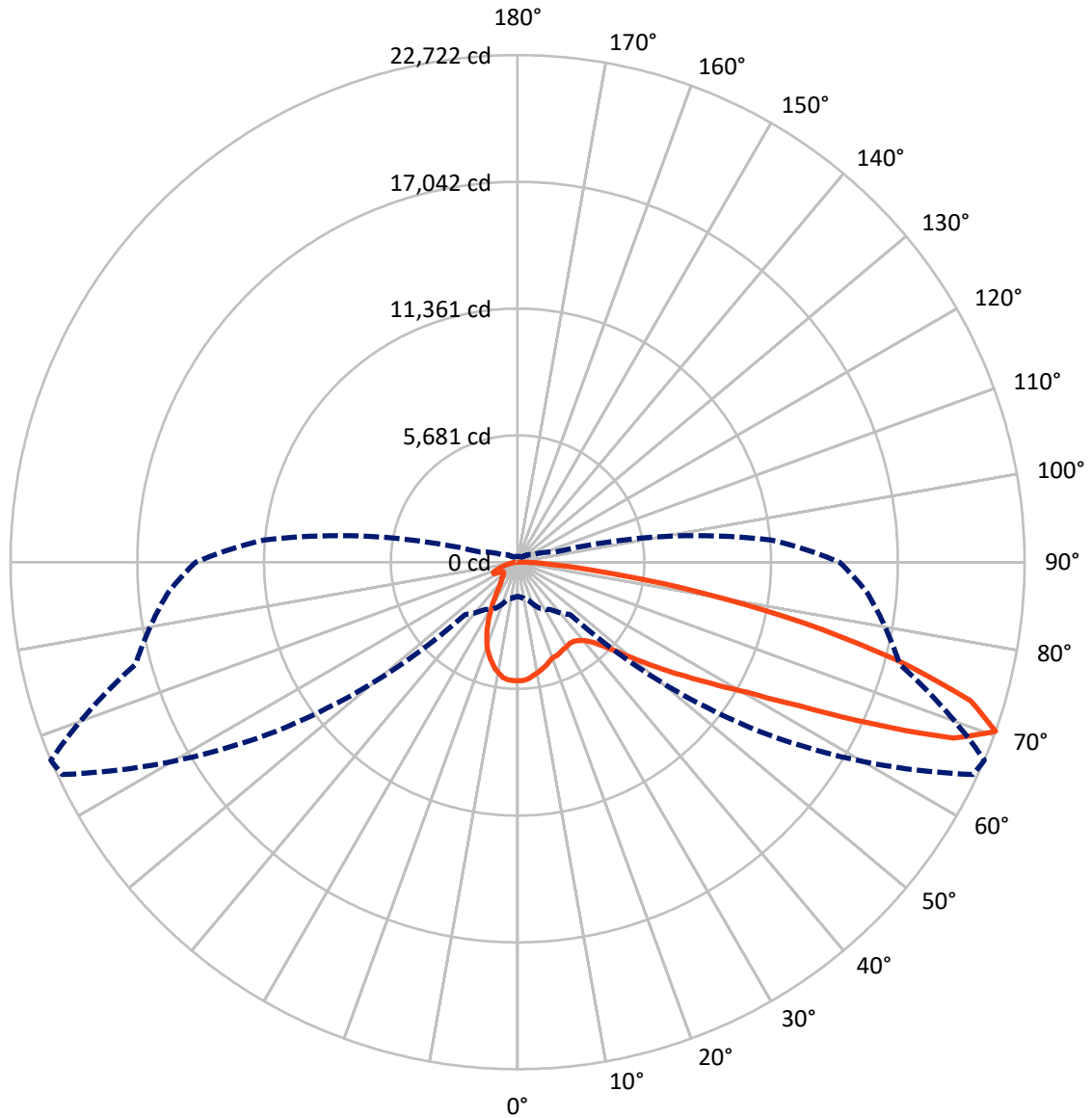
× Max cd
 - - - 1/2 Max cd



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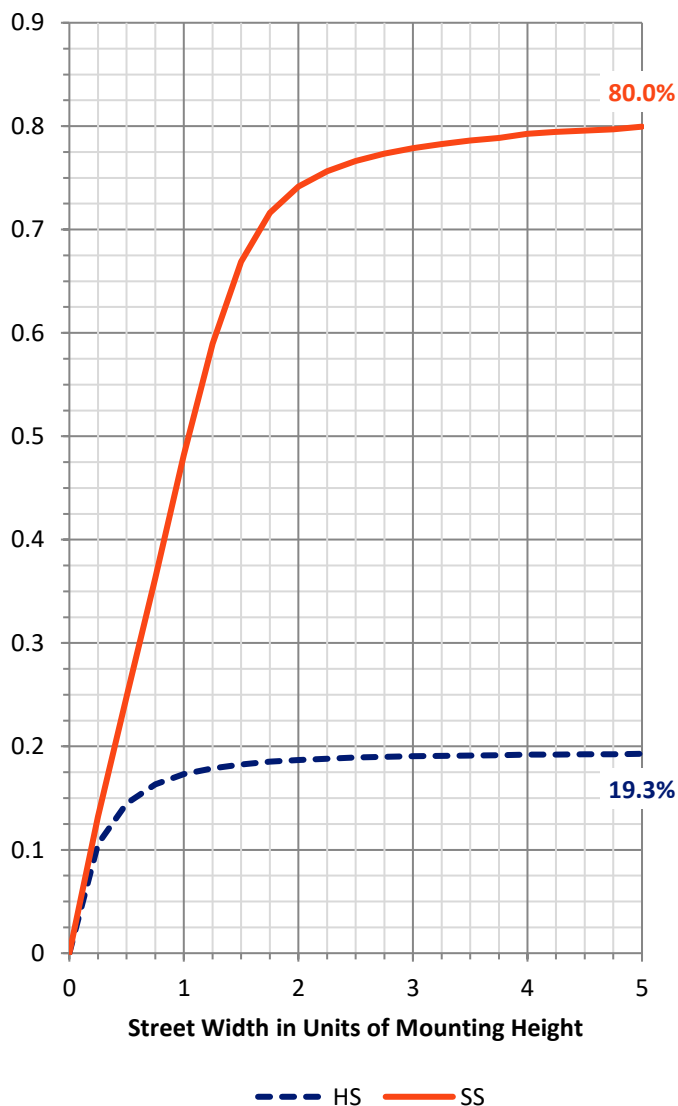
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4465.7	0.0	4465.7
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	18463.5	0.0	18463.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	22929.2	0.0	22929.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.1	2.0
10°-20°	1109.2	4.8
20°-30°	1497.9	6.5
30°-40°	2004.3	8.7
40°-50°	2947.3	12.9
50°-60°	4594.1	20.0
60°-70°	5659.1	24.7
70°-80°	3998.7	17.4
80°-90°	655.4	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°	22929.2	100.0
0°-180°	22929.2	100.0

Coefficient of Utilization



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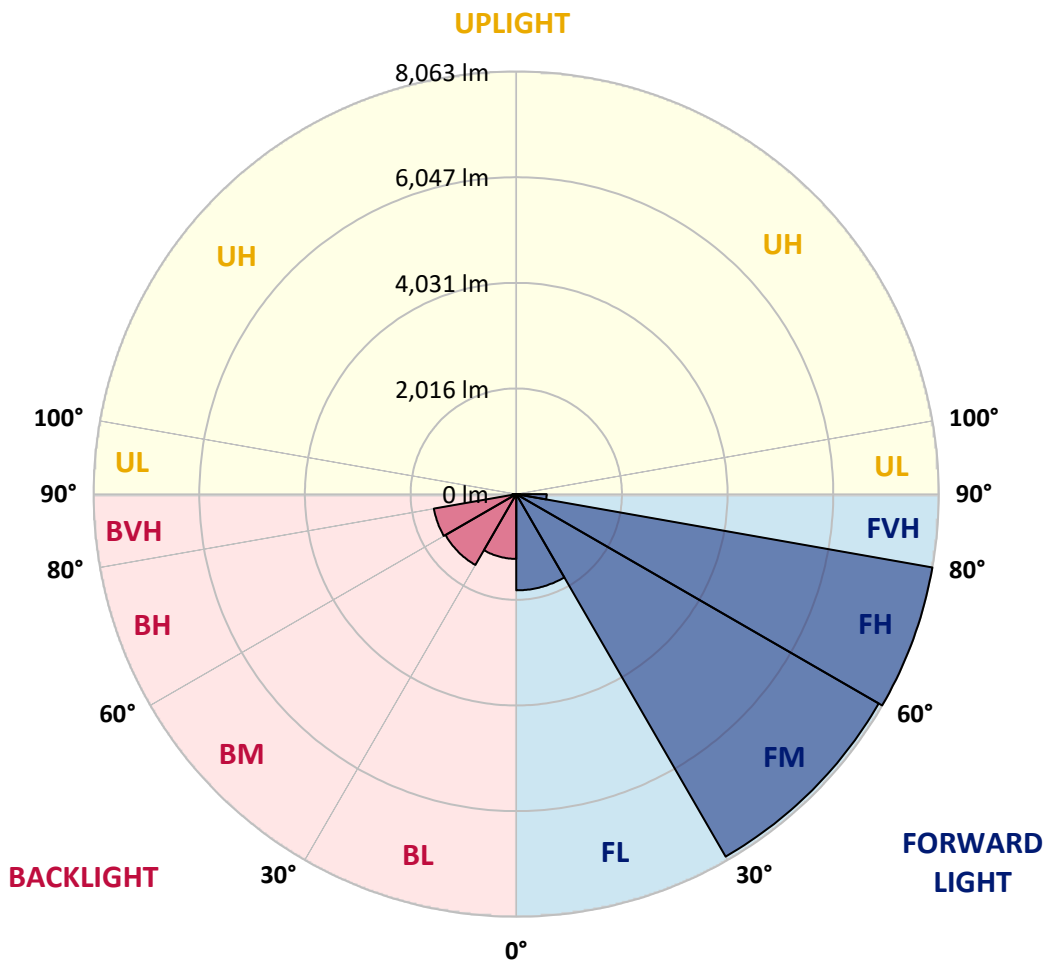
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1835.3	8.0			
FM (30°-60°)	7985.7	34.8			
FH (60°-80°)	8062.7	35.2			G4/12000
FVH (80°-90°)	579.8	2.5			G4/750
BL (0°-30°)	1234.9	5.4	B3/2500		
BM (30°-60°)	1560.0	6.8	B2/2500		
BH (60°-80°)	1595.2	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°	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0
2.5°	4942.5	4998.3	5018.6	5049.1	5127.8	5186.2	5221.7	5262.3	5310.6	5351.2	5376.6
5°	4597.2	4627.7	4675.9	4708.9	4807.9	4965.3	5071.9	5244.6	5239.5	5302.9	5399.4
7.5°	4262.2	4292.6	4315.5	4381.5	4523.6	4665.8	4861.2	5140.5	5120.2	5267.4	5417.2
10°	4054.0	4031.2	4038.8	4150.5	4262.2	4422.1	4668.3	4952.6	5026.3	5254.7	5468.0
12.5°	3858.5	3833.2	3894.1	3965.2	4102.2	4246.9	4541.4	4797.8	4909.5	5209.0	5490.8
15°	3736.7	3718.9	3795.1	3825.5	3988.0	4160.6	4368.8	4681.0	4802.9	5153.2	5455.3
17.5°	3668.1	3683.4	3711.3	3777.3	3881.4	4028.6	4257.1	4602.3	4655.6	5084.6	5447.6
20°	3680.8	3698.6	3701.1	3729.1	3800.2	3914.4	4147.9	4518.5	4554.1	5071.9	5468.0
22.5°	3782.4	3757.0	3767.2	3749.4	3769.7	3858.5	4064.2	4406.9	4543.9	4965.3	5424.8
25°	3934.7	3899.2	3894.1	3833.2	3795.1	3820.5	4048.9	4378.9	4467.8	4932.3	5422.3
27.5°	4203.8	4150.5	4150.5	4059.1	3904.2	3863.6	4005.8	4333.2	4411.9	4901.9	5363.9
30°	4462.7	4462.7	4465.2	4335.8	4163.2	3962.6	4023.5	4315.5	4366.2	4810.5	5285.2
32.5°	4777.5	4769.9	4757.2	4693.7	4427.2	4127.6	4109.8	4292.6	4318.0	4780.0	5262.3
35°	5084.6	5064.3	5163.3	5107.5	4835.9	4450.0	4198.7	4302.8	4358.6	4734.3	5191.3
37.5°	5315.6	5328.3	5534.0	5569.5	5336.0	4815.6	4450.0	4404.3	4457.6	4800.3	5191.3
40°	5615.2	5666.0	5858.9	5978.2	5836.0	5297.9	4848.6	4574.4	4612.5	4947.6	5302.9
42.5°	6008.7	6051.8	6298.0	6452.9	6412.3	5912.2	5242.0	4929.8	4899.3	5193.8	5470.5
45°	6529.1	6536.7	6785.4	6998.7	7082.4	6554.4	5866.5	5379.1	5353.7	5617.7	5777.7
47.5°	7148.4	7140.8	7295.7	7524.1	7750.1	7321.1	6584.9	6062.0	5970.6	6224.4	6287.9
50°	7747.5	7714.5	7750.1	8042.0	8476.1	8280.6	7458.1	6897.1	6805.7	6945.4	7054.5
52.5°	8077.5	8118.2	8021.7	8407.5	9247.8	9415.3	8615.7	7894.8	7816.1	7884.6	8075.0
55°	7846.5	7930.3	7866.8	8232.4	9585.4	10798.8	10113.4	9049.8	8948.3	8922.9	9235.1
57.5°	6864.1	7016.4	7029.1	7607.9	9468.6	11870.1	12220.4	10413.0	10260.7	10001.7	10324.1
60°	5269.9	5422.3	5539.0	6224.4	8468.5	12509.8	14662.4	12352.4	11849.8	11179.6	11372.5
62.5°	3693.5	3797.6	3914.4	4335.8	6529.1	12134.1	16774.5	15083.8	14157.3	12420.9	12662.1
65°	2690.8	2772.1	2891.4	3140.1	4010.8	10039.8	17754.3	18328.1	17449.7	13999.9	13969.4
67.5°	2025.7	2076.5	2233.9	2632.4	2779.7	6201.6	16738.9	21755.0	21044.3	15754.0	15020.4
70°	1533.3	1576.4	1723.6	2269.4	2596.9	3325.4	13205.3	22519.1	22722.2	17721.3	15726.1
72.5°	1056.0	1104.3	1269.3	1891.2	2472.5	2637.5	8288.2	20457.9	21227.0	18531.1	14969.6
75°	647.3	680.3	776.8	1434.3	2454.7	2579.1	4561.7	16764.3	17579.2	17122.3	13096.2
77.5°	456.9	454.4	472.2	840.2	2127.3	2594.4	2812.7	12283.9	13075.9	12618.9	8887.3
80°	332.5	335.1	352.9	502.6	1444.4	2637.5	2216.1	8227.3	8463.4	6579.8	3505.7
82.5°	200.5	210.7	253.9	340.2	868.2	2381.1	2048.6	4571.9	4277.4	2112.0	964.6
85°	106.6	106.6	149.8	215.8	462.0	1777.0	1972.4	2175.5	1822.7	654.9	357.9
87.5°	25.4	25.4	43.2	86.3	185.3	850.4	1345.4	865.6	693.0	220.9	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°	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0	5308.0
2.5°	5366.4	5336.0	5374.0	5297.9	5236.9	5239.5	5145.6	5140.5	5127.8	5061.8	5084.6
5°	5427.3	5402.0	5358.8	5275.0	5140.5	5005.9	4924.7	4820.6	4777.5	4754.6	4764.8
7.5°	5485.7	5440.0	5315.6	5198.9	4990.7	4736.9	4589.6	4450.0	4272.3	4252.0	4216.5
10°	5501.0	5404.5	5244.6	4995.8	4719.1	4437.3	4102.2	3843.3	3706.2	3599.6	3559.0
12.5°	5478.1	5437.5	5130.3	4810.5	4391.6	3949.9	3559.0	3193.4	2939.6	2807.6	2772.1
15°	5475.6	5404.5	5003.4	4528.7	3993.1	3416.8	2860.9	2421.7	2155.2	2046.0	2046.0
17.5°	5478.1	5308.0	4853.6	4244.4	3523.5	2744.1	2132.3	1771.9	1624.6	1609.4	1622.1
20°	5427.3	5236.9	4696.2	3909.3	2934.5	2061.3	1548.5	1401.3	1401.3	1421.6	1429.2
22.5°	5381.6	5130.3	4447.5	3495.5	2335.4	1492.6	1259.1	1215.9	1264.2	1299.7	1314.9
25°	5318.2	5041.5	4193.6	3066.5	1777.0	1203.3	1094.1	1104.3	1149.9	1213.4	1208.3
27.5°	5226.8	4886.6	3891.5	2569.0	1322.6	1038.3	1010.3	1015.4	1063.6	1091.6	1086.5
30°	5122.7	4729.2	3612.3	2074.0	1048.4	951.9	949.4	962.1	969.7	984.9	982.4
32.5°	4990.7	4521.1	3315.3	1612.0	944.3	903.7	893.6	885.9	893.6	891.0	883.4
35°	4896.8	4409.4	3013.2	1228.6	885.9	860.6	852.9	840.2	830.1	814.9	812.3
37.5°	4871.4	4297.7	2695.9	1002.7	840.2	827.6	802.2	779.3	766.6	759.0	753.9
40°	4856.2	4224.1	2386.2	880.9	802.2	789.5	759.0	728.6	715.9	708.2	710.8
42.5°	4909.5	4183.5	2071.4	819.9	769.2	746.3	713.3	677.8	675.2	670.2	677.8
45°	5097.3	4234.2	1779.5	776.8	736.2	698.1	654.9	637.2	634.6	629.6	634.6
47.5°	5523.8	4361.2	1530.7	748.9	700.6	667.6	621.9	596.6	594.0	591.5	591.5
50°	6112.7	4752.1	1322.6	715.9	677.8	632.1	588.9	561.0	555.9	545.8	545.8
52.5°	7036.8	5409.6	1198.2	698.1	637.2	599.1	553.4	522.9	510.2	500.1	500.1
55°	8077.5	6224.4	1175.3	667.6	594.0	558.5	517.9	487.4	474.7	462.0	456.9
57.5°	9263.0	7303.3	1337.8	647.3	563.5	517.9	472.2	444.2	434.1	421.4	416.3
60°	10367.3	8379.6	1843.0	616.9	535.6	479.8	434.1	406.2	393.5	380.8	380.8
62.5°	11644.2	9712.3	2698.4	616.9	510.2	439.2	393.5	373.2	365.5	352.9	350.3
65°	13154.6	11090.8	3322.9	654.9	502.6	403.6	355.4	335.1	327.5	319.9	317.3
67.5°	14304.5	11882.8	2858.4	756.5	535.6	373.2	317.3	304.6	299.5	291.9	286.9
70°	14426.4	11400.5	1723.6	817.4	568.6	342.7	284.3	271.6	271.6	264.0	258.9
72.5°	13332.3	10116.0	1160.1	728.6	515.3	307.2	251.3	241.2	236.1	231.0	228.5
75°	11156.8	8580.2	916.4	581.3	396.0	253.9	218.3	208.2	200.5	198.0	192.9
77.5°	7493.7	5577.1	677.8	454.4	291.9	205.6	182.8	172.6	165.0	162.5	154.8
80°	2878.7	2124.7	436.6	330.0	205.6	162.5	144.7	134.5	129.5	121.8	116.8
82.5°	847.9	687.9	243.7	203.1	132.0	111.7	104.1	96.5	88.8	81.2	78.7
85°	350.3	314.8	149.8	106.6	81.2	66.0	60.9	53.3	45.7	40.6	35.5
87.5°	162.5	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)