

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: P480032

Luminaire Tested: **IFLD-S-SA3E-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480032
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

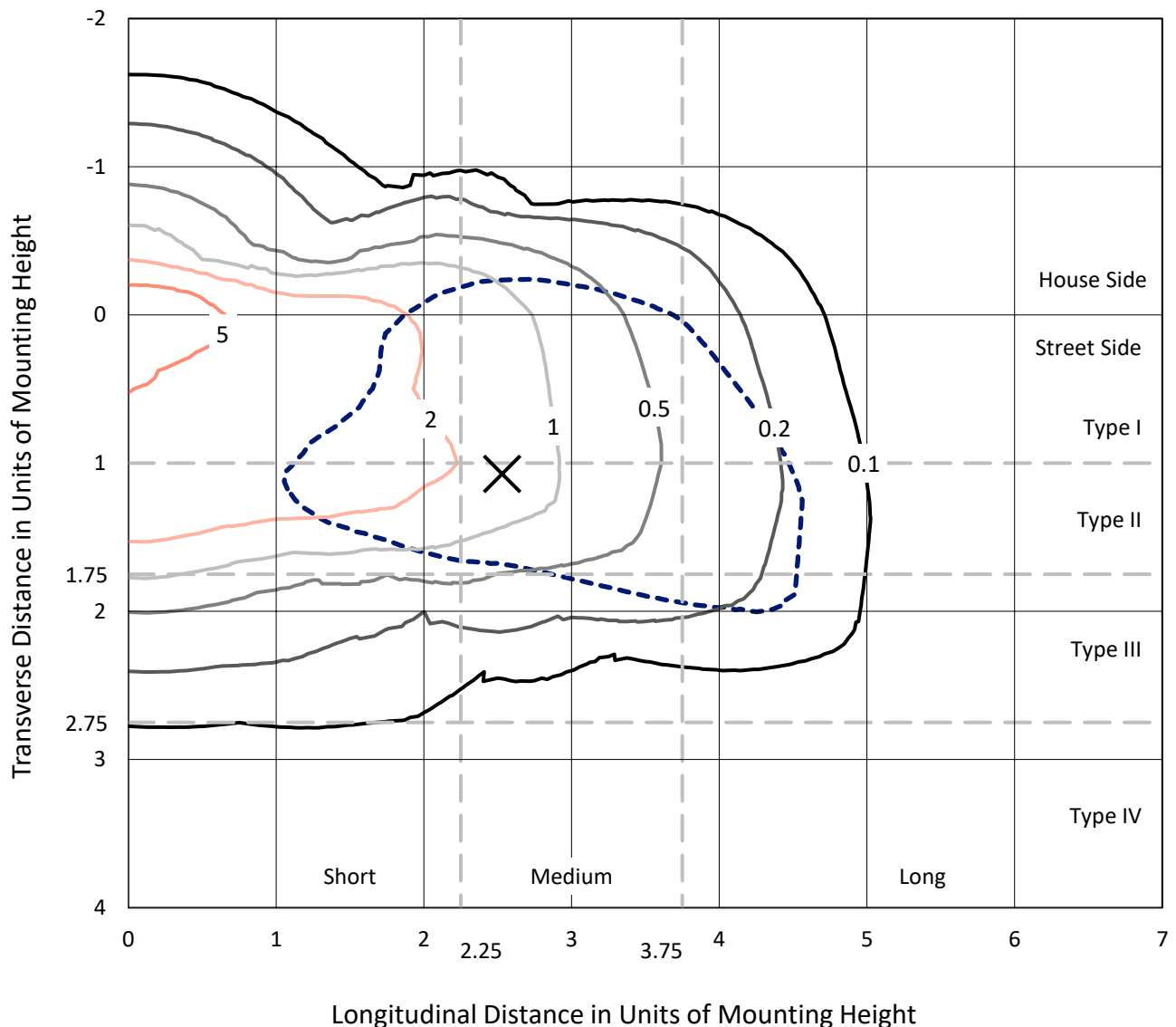
Lumens per Lamp: N/A
Luminaire Lumens: 24489.7 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
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

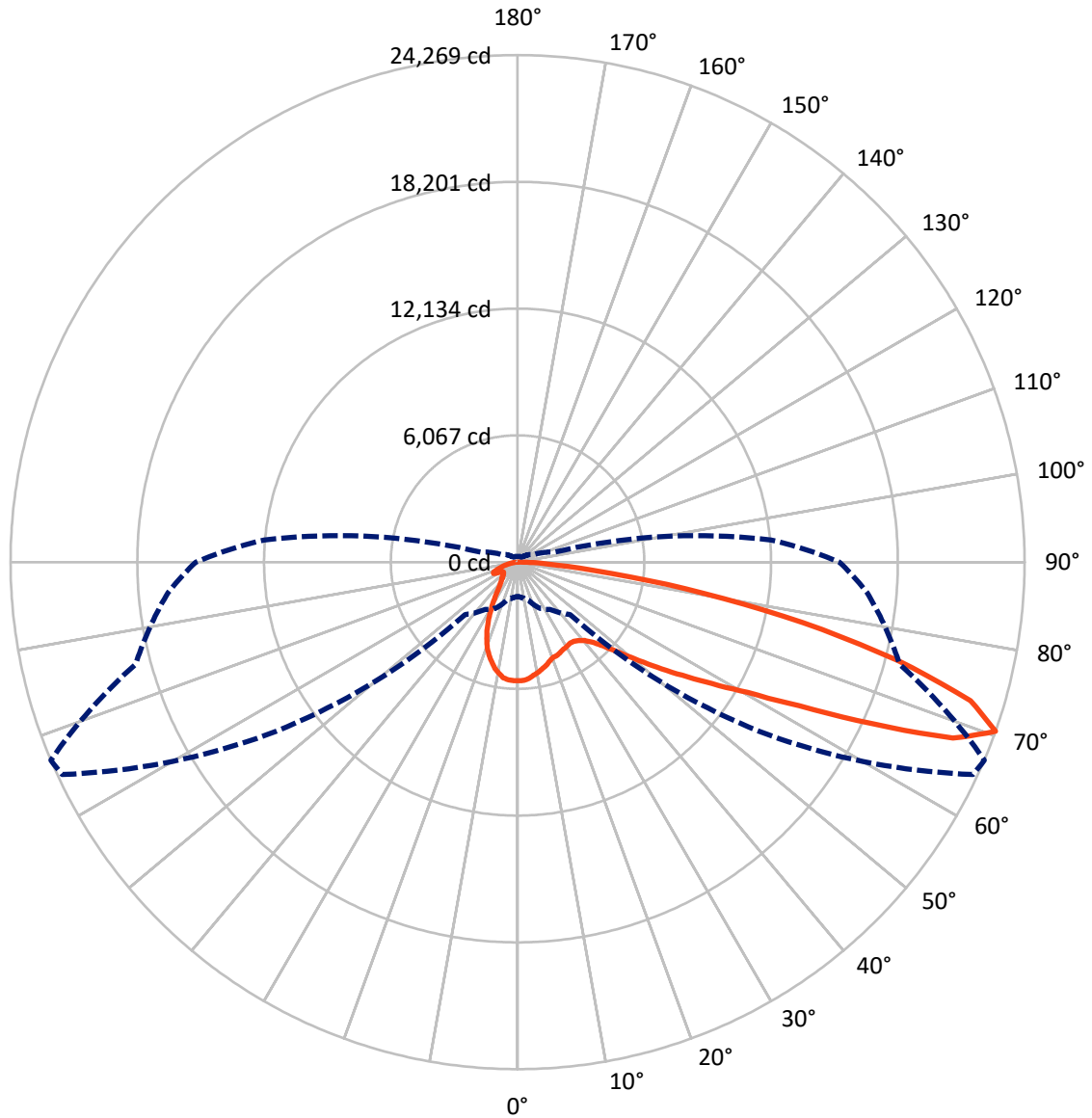
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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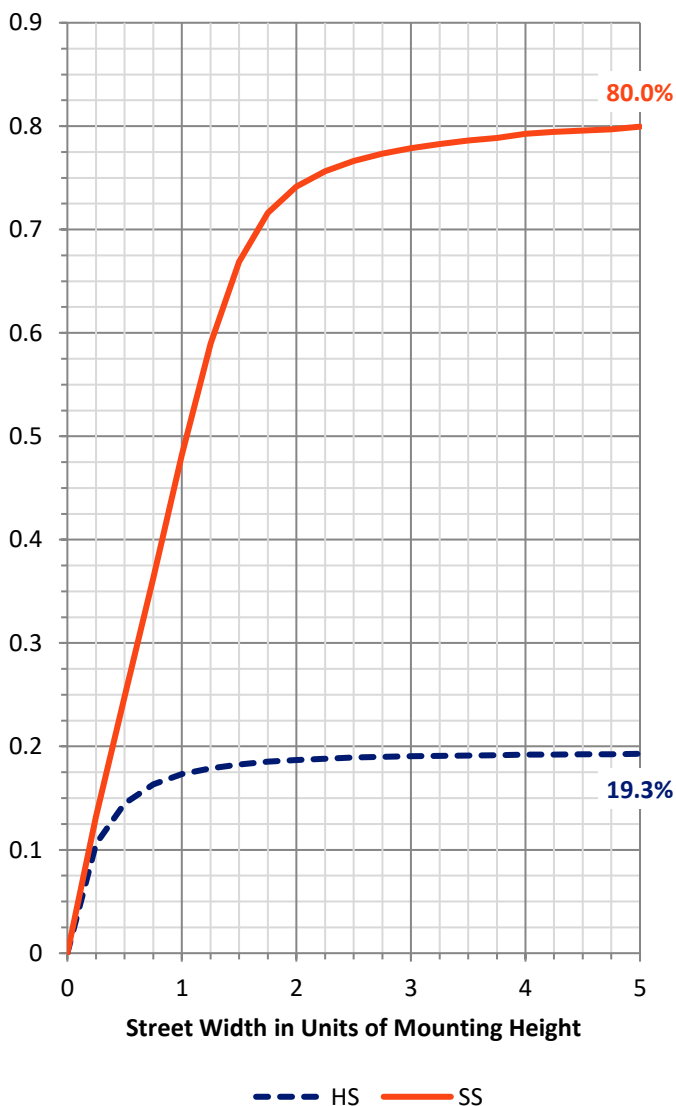
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4769.6	0.0	4769.6
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	19720.1	0.0	19720.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	24489.7	0.0	24489.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.7	2.0
10°-20°	1184.7	4.8
20°-30°	1599.8	6.5
30°-40°	2140.7	8.7
40°-50°	3147.9	12.9
50°-60°	4906.7	20.0
60°-70°	6044.3	24.7
70°-80°	4270.8	17.4
80°-90°	700.0	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°	24489.7	100.0
0°-180°	24489.7	100.0

Coefficient of Utilization



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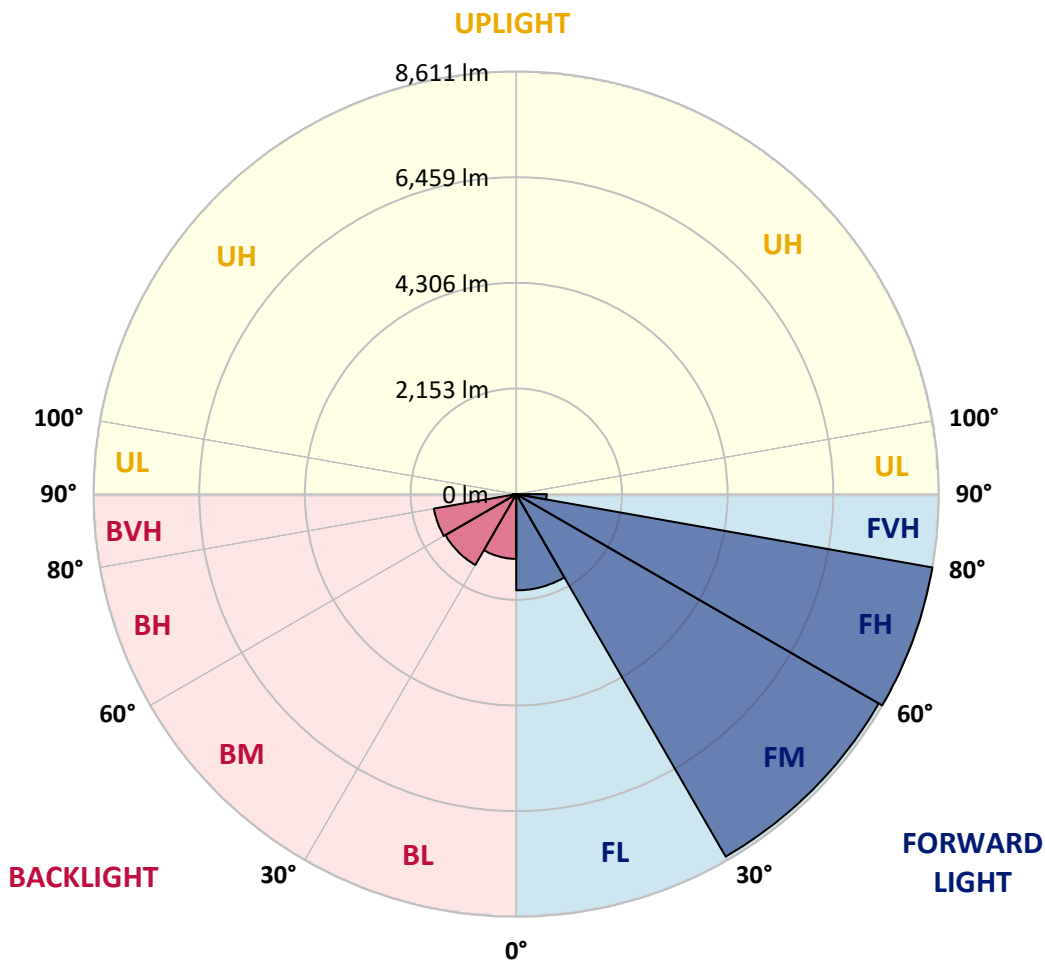
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1960.2	8.0			
FM	(30°-60°)	8529.2	34.8			
FH	(60°-80°)	8611.4	35.2			G4/12000
FVH	(80°-90°)	619.3	2.5			G4/750
BL	(0°-30°)	1319.0	5.4	B3/2500		
BM	(30°-60°)	1666.1	6.8	B2/2500		
BH	(60°-80°)	1703.8	7.0	B3/2500		G3/2500
BVH	(80°-90°)	80.8	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°	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3
2.5°	5278.9	5338.5	5360.2	5392.7	5476.8	5539.1	5577.1	5620.5	5672.0	5715.4	5742.5
5°	4910.1	4942.7	4994.2	5029.4	5135.2	5303.3	5417.1	5601.5	5596.1	5663.9	5766.9
7.5°	4552.2	4584.8	4609.2	4679.7	4831.5	4983.3	5192.1	5490.3	5468.6	5625.9	5785.9
10°	4329.9	4305.5	4313.6	4432.9	4552.2	4723.0	4986.0	5289.7	5368.3	5612.3	5840.1
12.5°	4121.1	4094.0	4159.1	4235.0	4381.4	4536.0	4850.5	5124.3	5243.6	5563.5	5864.5
15°	3991.0	3972.0	4053.4	4085.9	4259.4	4443.8	4666.1	4999.6	5129.7	5503.9	5826.5
17.5°	3917.8	3934.1	3963.9	4034.4	4145.5	4302.8	4546.8	4915.5	4972.5	5430.7	5818.4
20°	3931.4	3950.3	3953.0	3982.9	4058.8	4180.8	4430.2	4826.1	4864.0	5417.1	5840.1
22.5°	4039.8	4012.7	4023.5	4004.6	4026.2	4121.1	4340.8	4706.8	4853.2	5303.3	5794.0
25°	4202.5	4164.5	4159.1	4094.0	4053.4	4080.5	4324.5	4677.0	4771.8	5268.0	5791.3
27.5°	4489.9	4432.9	4432.9	4335.3	4169.9	4126.6	4278.4	4628.1	4712.2	5235.5	5728.9
30°	4766.4	4766.4	4769.1	4630.9	4446.5	4232.3	4297.4	4609.2	4663.4	5137.9	5644.9
32.5°	5102.6	5094.5	5080.9	5013.2	4728.5	4408.5	4389.6	4584.8	4611.9	5105.3	5620.5
35°	5430.7	5409.0	5514.7	5455.1	5165.0	4752.9	4484.5	4595.6	4655.3	5056.5	5544.6
37.5°	5677.4	5691.0	5910.6	5948.5	5699.1	5143.3	4752.9	4704.1	4761.0	5127.0	5544.6
40°	5997.3	6051.6	6257.6	6385.1	6233.2	5658.4	5178.5	4885.7	4926.4	5284.3	5663.9
42.5°	6417.6	6463.7	6726.7	6892.1	6848.7	6314.6	5598.8	5265.3	5232.8	5547.3	5842.8
45°	6973.4	6981.5	7247.2	7475.0	7564.5	7000.5	6265.8	5745.2	5718.1	6000.1	6170.9
47.5°	7635.0	7626.8	7792.2	8036.2	8277.5	7819.3	7033.1	6474.5	6376.9	6648.1	6715.8
50°	8274.8	8239.6	8277.5	8589.3	9053.0	8844.2	7965.7	7366.5	7268.9	7418.1	7534.6
52.5°	8627.3	8670.7	8567.6	8979.7	9877.2	10056.1	9202.1	8432.1	8348.0	8421.2	8624.6
55°	8380.6	8470.0	8402.2	8792.7	10237.8	11533.8	10801.7	9665.7	9557.3	9530.1	9863.6
57.5°	7331.3	7494.0	7507.5	8125.7	10113.1	12677.9	13052.1	11121.7	10959.0	10682.4	11026.8
60°	5628.6	5791.3	5916.0	6648.1	9044.8	13361.2	15660.3	13193.1	12656.2	11940.5	12146.5
62.5°	3944.9	4056.1	4180.8	4630.9	6973.4	12959.9	17916.1	16110.4	15120.8	13266.3	13523.8
65°	2874.0	2960.7	3088.1	3353.8	4283.8	10723.1	18962.7	19575.4	18637.3	14952.7	14920.2
67.5°	2163.6	2217.8	2385.9	2811.6	2968.8	6623.6	17878.2	23235.6	22476.5	16826.2	16042.6
70°	1637.6	1683.7	1841.0	2423.9	2773.6	3551.8	14104.1	24051.7	24268.6	18927.4	16796.4
72.5°	1127.9	1179.4	1355.6	2019.9	2640.8	2817.0	8852.3	21850.2	22671.7	19792.3	15988.4
75°	691.4	726.6	829.7	1531.9	2621.8	2754.7	4872.2	17905.3	18775.6	18287.6	13987.5
77.5°	488.0	485.3	504.3	897.4	2272.0	2770.9	3004.1	13119.9	13965.8	13477.8	9492.2
80°	355.2	357.9	376.9	536.8	1542.7	2817.0	2366.9	8787.2	9039.4	7027.6	3744.3
82.5°	214.2	225.0	271.1	363.3	927.3	2543.2	2188.0	4883.0	4568.5	2255.8	1030.3
85°	113.9	113.9	160.0	230.5	493.5	1897.9	2106.7	2323.6	1946.7	699.5	382.3
87.5°	27.1	27.1	46.1	92.2	197.9	908.3	1437.0	924.5	740.2	235.9	157.3
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°	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3	5669.3
2.5°	5731.6	5699.1	5739.8	5658.4	5593.4	5596.1	5495.8	5490.3	5476.8	5406.3	5430.7
5°	5796.7	5769.6	5723.5	5634.0	5490.3	5346.6	5259.9	5148.7	5102.6	5078.2	5089.1
7.5°	5859.1	5810.3	5677.4	5552.7	5330.4	5059.2	4902.0	4752.9	4563.1	4541.4	4503.4
10°	5875.3	5772.3	5601.5	5335.8	5040.3	4739.3	4381.4	4104.9	3958.5	3844.6	3801.2
12.5°	5850.9	5807.6	5479.5	5137.9	4690.5	4218.7	3801.2	3410.8	3139.7	2998.7	2960.7
15°	5848.2	5772.3	5343.9	4836.9	4264.8	3649.4	3055.6	2586.6	2301.9	2185.3	2185.3
17.5°	5850.9	5669.3	5184.0	4533.3	3763.3	2930.9	2277.5	1892.5	1735.2	1718.9	1732.5
20°	5796.7	5593.4	5015.9	4175.4	3134.2	2201.6	1653.9	1496.6	1496.6	1518.3	1526.4
22.5°	5747.9	5479.5	4750.2	3733.4	2494.4	1594.2	1344.8	1298.7	1350.2	1388.2	1404.4
25°	5680.1	5384.6	4479.0	3275.2	1897.9	1285.1	1168.6	1179.4	1228.2	1296.0	1290.6
27.5°	5582.5	5219.2	4156.4	2743.8	1412.6	1108.9	1079.1	1084.5	1136.0	1165.8	1160.4
30°	5471.4	5051.1	3858.1	2215.1	1119.8	1016.7	1014.0	1027.6	1035.7	1052.0	1049.3
32.5°	5330.4	4828.8	3540.9	1721.7	1008.6	965.2	954.4	946.2	954.4	951.7	943.5
35°	5230.1	4709.5	3218.3	1312.3	946.2	919.1	911.0	897.4	886.6	870.3	867.6
37.5°	5202.9	4590.2	2879.4	1071.0	897.4	883.9	856.8	832.4	818.8	810.7	805.2
40°	5186.7	4511.6	2548.6	940.8	856.8	843.2	810.7	778.1	764.6	756.4	759.2
42.5°	5243.6	4468.2	2212.4	875.7	821.5	797.1	761.9	723.9	721.2	715.8	723.9
45°	5444.2	4522.4	1900.6	829.7	786.3	745.6	699.5	680.5	677.8	672.4	677.8
47.5°	5899.7	4658.0	1634.9	799.8	748.3	713.1	664.3	637.2	634.4	631.7	631.7
50°	6528.8	5075.5	1412.6	764.6	723.9	675.1	629.0	599.2	593.8	582.9	582.9
52.5°	7515.7	5777.7	1279.7	745.6	680.5	639.9	591.1	558.5	545.0	534.1	534.1
55°	8627.3	6648.1	1255.3	713.1	634.4	596.5	553.1	520.6	507.0	493.5	488.0
57.5°	9893.4	7800.3	1428.8	691.4	601.9	553.1	504.3	474.5	463.6	450.1	444.6
60°	11072.9	8949.9	1968.4	658.8	572.1	512.4	463.6	433.8	420.2	406.7	406.7
62.5°	12436.6	10373.3	2882.1	658.8	545.0	469.1	420.2	398.6	390.4	376.9	374.2
65°	14049.8	11845.6	3549.1	699.5	536.8	431.1	379.6	357.9	349.8	341.6	338.9
67.5°	15278.0	12691.5	3052.9	808.0	572.1	398.6	338.9	325.4	319.9	311.8	306.4
70°	15408.2	12176.3	1841.0	873.0	607.3	366.0	303.7	290.1	290.1	282.0	276.6
72.5°	14239.6	10804.4	1239.1	778.1	550.4	328.1	268.4	257.6	252.1	246.7	244.0
75°	11916.1	9164.1	978.8	620.9	423.0	271.1	233.2	222.3	214.2	211.5	206.1
77.5°	8003.7	5956.7	723.9	485.3	311.8	219.6	195.2	184.4	176.2	173.5	165.4
80°	3074.6	2269.3	466.3	352.5	219.6	173.5	154.5	143.7	138.3	130.1	124.7
82.5°	905.6	734.8	260.3	216.9	141.0	119.3	111.2	103.0	94.9	86.8	84.0
85°	374.2	336.2	160.0	113.9	86.8	70.5	65.1	56.9	48.8	43.4	38.0
87.5°	173.5	143.7	73.2	43.4	29.8	16.3	8.1	2.7	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)