

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: P478291

Luminaire Tested: **IFLD-S-SA6D-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478291
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

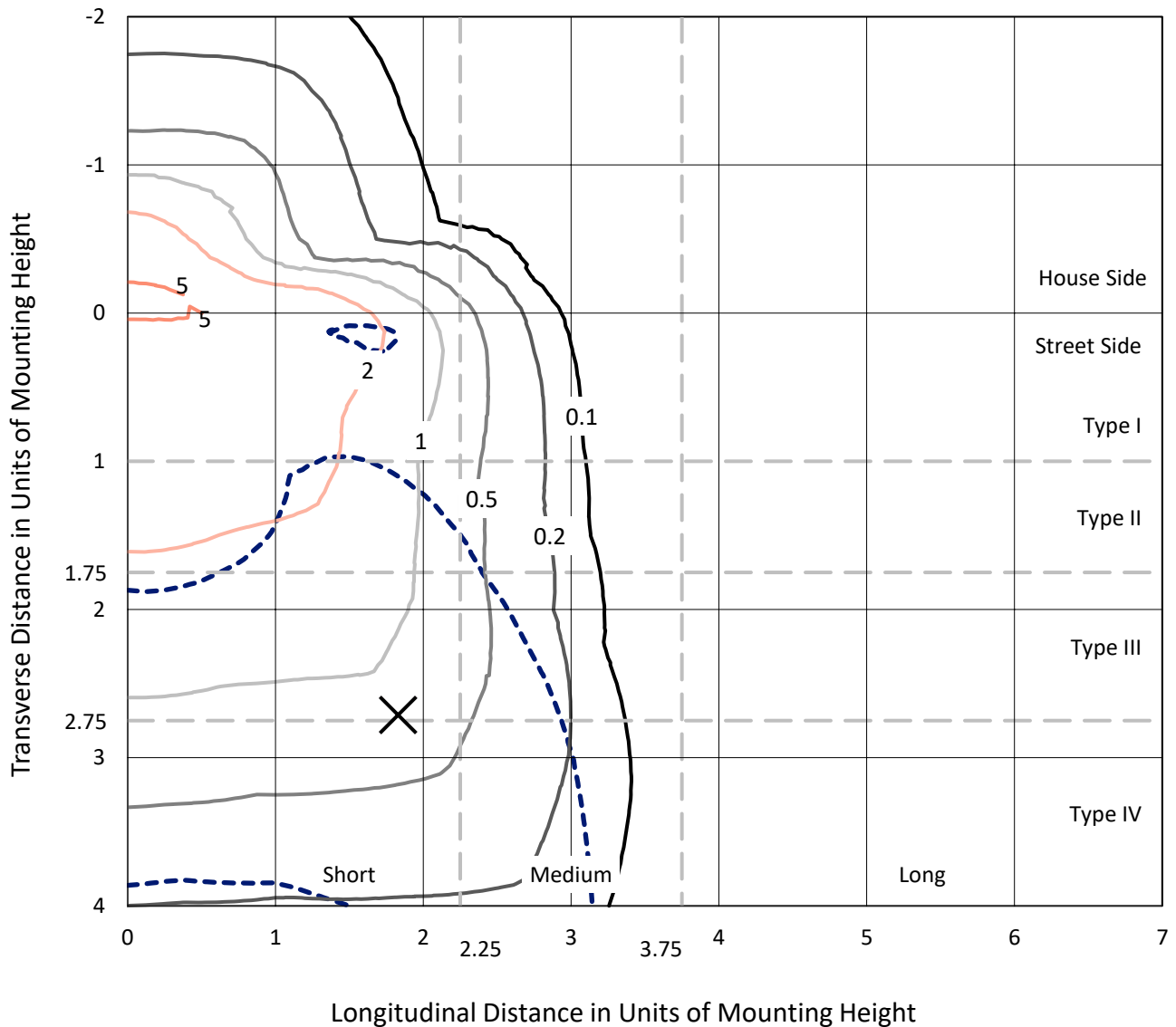
Lumens per Lamp: N/A
Luminaire Lumens: 34433.3 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

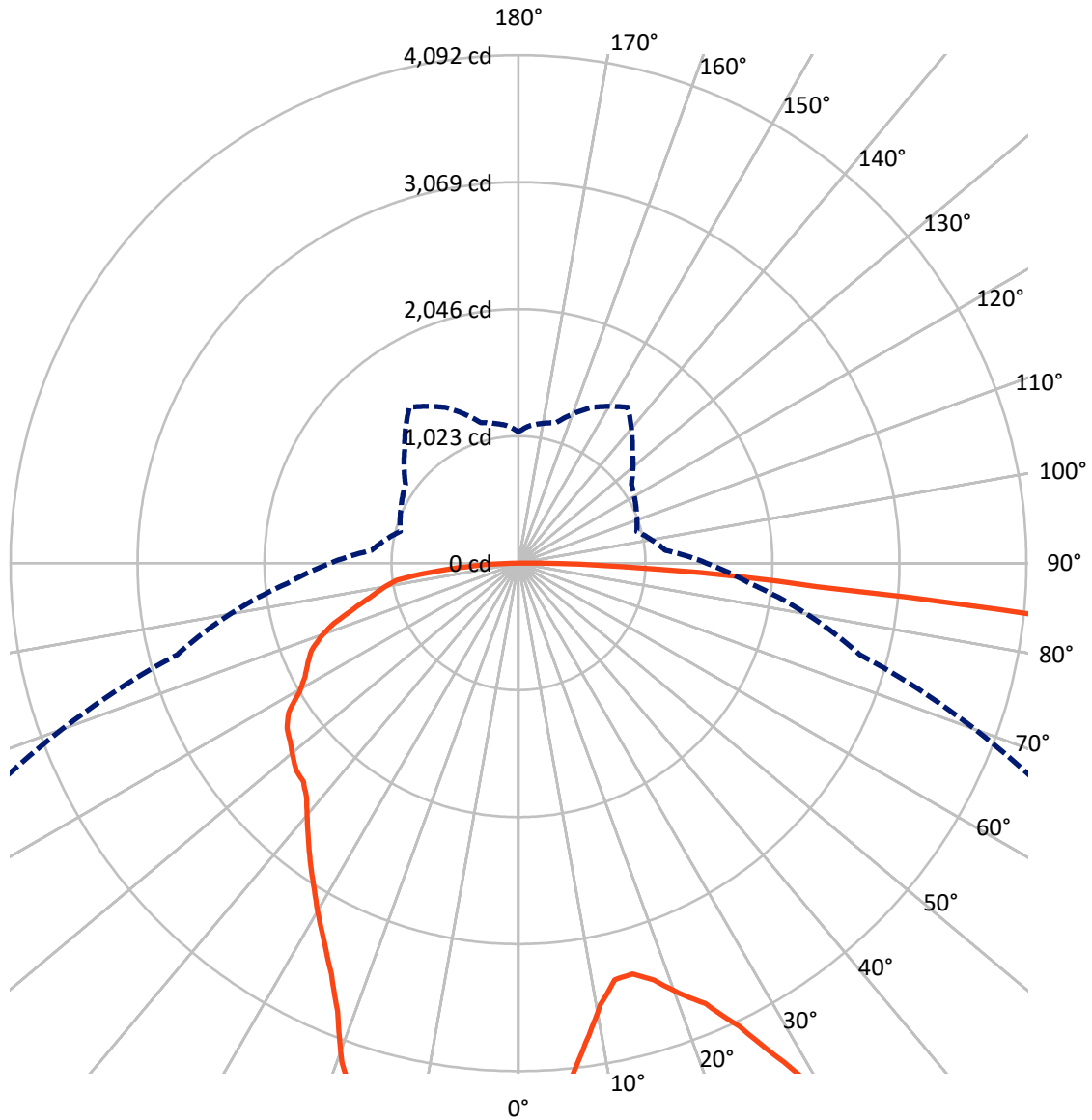
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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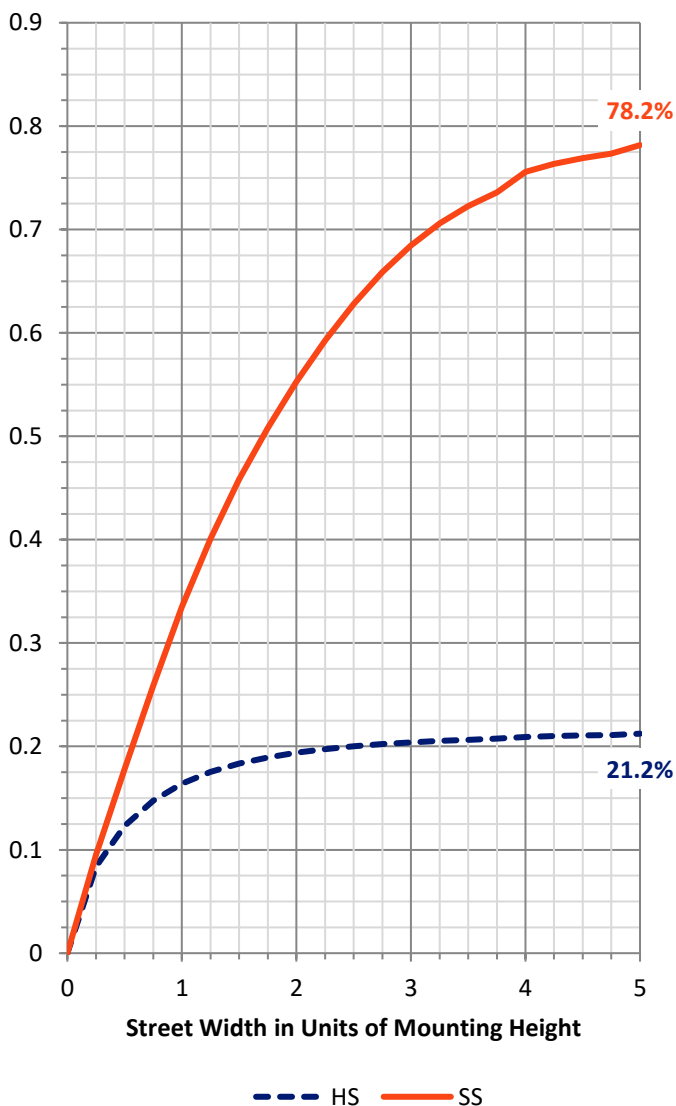
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7438.0	0.0	7438.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	26995.3	0.0	26995.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	34433.3	0.0	34433.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	455.6	1.3
10°-20°	1275.1	3.7
20°-30°	2098.6	6.1
30°-40°	3138.5	9.1
40°-50°	4652.6	13.5
50°-60°	6704.9	19.5
60°-70°	8556.4	24.8
70°-80°	6658.3	19.3
80°-90°	893.3	2.6
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°	34433.3	100.0
0°-180°	34433.3	100.0

Coefficient of Utilization

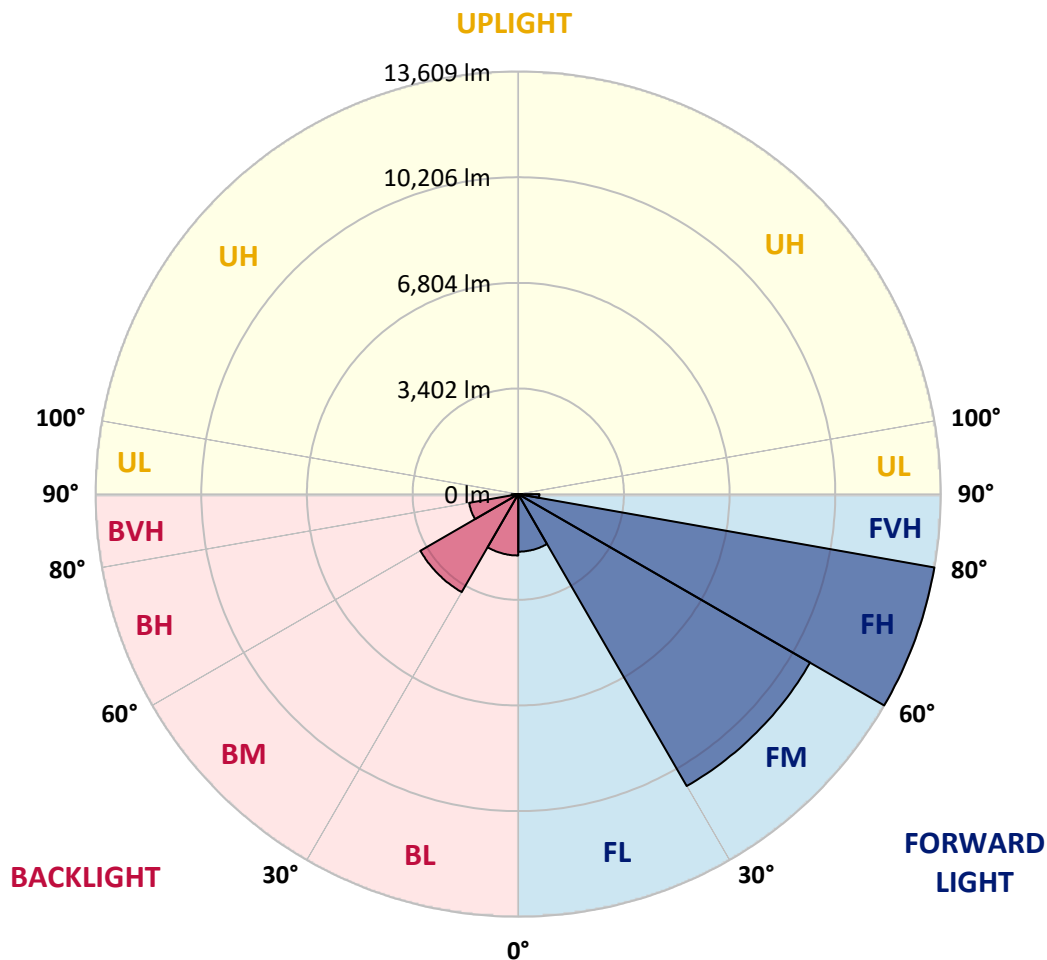


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1853.1	5.4			
FM (30°-60°)	10853.6	31.5			
FH (60°-80°)	13608.7	39.5			G5
FVH (80°-90°)	679.9	2.0			G4/750
BL (0°-30°)	1976.2	5.7	B3/2500		
BM (30°-60°)	3642.4	10.6	B3/5000		
BH (60°-80°)	1606.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	213.3	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6
2.5°	4423.2	4437.8	4485.1	4496.0	4547.0	4517.9	4579.8	4689.0	4750.9	4841.9	4951.1
5°	4073.7	4011.9	4041.0	4153.8	4212.1	4226.6	4292.2	4477.8	4594.3	4729.0	4932.9
7.5°	3662.4	3651.4	3709.7	3782.5	3899.0	3909.9	4055.5	4219.4	4459.6	4758.2	4998.4
10°	3382.0	3429.4	3462.1	3538.6	3618.7	3618.7	3804.3	4088.3	4361.3	4649.0	5013.0
12.5°	3367.5	3338.4	3345.6	3385.7	3443.9	3516.7	3691.5	3946.3	4292.2	4627.1	5074.9
15°	3414.8	3425.7	3360.2	3411.2	3433.0	3458.5	3651.4	3939.0	4248.5	4703.6	5180.5
17.5°	3666.0	3604.1	3502.2	3454.9	3531.3	3531.3	3662.4	3888.1	4255.8	4743.6	5333.4
20°	3862.6	3862.6	3695.1	3644.2	3698.8	3687.9	3778.9	3946.3	4292.2	4823.7	5504.5
22.5°	4193.9	4241.2	3964.5	3859.0	3855.3	3884.4	3964.5	4106.5	4394.1	4936.6	5668.3
25°	4670.8	4681.7	4361.3	4252.1	4135.6	4183.0	4197.5	4339.5	4485.1	5067.6	5854.0
27.5°	5202.3	5195.0	4900.1	4627.1	4550.7	4561.6	4481.5	4576.1	4619.8	5107.7	6119.7
30°	5792.1	5726.5	5504.5	5118.6	5056.7	4987.5	4812.8	4809.1	4900.1	5333.4	6487.4
32.5°	6178.0	6094.2	5941.3	5664.7	5493.6	5500.8	5224.2	5220.5	5140.4	5580.9	6807.8
35°	6556.6	6429.2	6389.1	6105.2	5934.1	5952.3	5730.2	5701.1	5555.4	5955.9	7335.7
37.5°	7011.7	6898.8	6960.7	6745.9	6534.7	6447.4	6345.4	6309.0	6119.7	6483.8	8056.5
40°	7514.0	7477.6	7437.6	7332.0	7204.6	7211.9	7102.7	7066.3	6785.9	7120.9	8748.2
42.5°	8191.2	8052.8	7845.3	7914.5	7980.0	8049.2	8012.8	7918.1	7626.9	7768.9	9520.0
45°	8821.0	8639.0	8256.7	8278.6	8548.0	8602.6	9043.1	9032.1	8446.0	8591.6	10397.3
47.5°	9246.9	9163.2	8933.8	8908.4	9294.3	9290.6	10084.3	10084.3	9308.8	9410.8	11340.2
50°	9880.4	9662.0	9563.7	9691.1	9887.7	10022.4	11147.3	11216.5	10157.1	10266.3	12574.4
52.5°	10623.1	10350.0	10102.5	10430.1	10779.6	10867.0	12199.4	12170.3	10808.7	11260.1	14019.7
55°	11238.3	11100.0	10928.9	11118.2	11689.7	11798.9	13255.2	12985.8	11460.4	12082.9	14715.0
57.5°	11955.5	12039.2	12075.6	12028.3	12709.1	12880.2	14460.2	13688.4	12021.0	12636.3	15122.7
60°	13036.7	13087.7	13135.0	13247.9	13968.7	14209.0	15414.0	14569.4	12374.1	12956.6	15155.5
62.5°	14682.2	14485.6	14591.2	14980.8	15559.6	15832.6	16819.2	15188.3	12643.5	13149.6	14085.2
65°	16564.4	16298.6	16189.4	16691.8	18191.7	17973.3	18574.0	15650.6	12254.0	12428.8	11944.6
67.5°	18472.0	18501.1	18220.8	19229.3	21067.7	21067.7	20204.9	15872.7	11198.3	10073.3	8376.8
70°	19986.5	20077.5	20230.4	22185.4	25097.8	25538.3	22225.4	14962.6	9046.7	6705.8	4579.8
72.5°	19964.6	19691.6	20474.3	24074.8	28760.1	28392.5	22647.7	11831.7	5646.5	3283.8	2100.6
73°	19516.9	19287.5	20143.0	24056.6	28909.4	28563.6	22338.3	10907.0	4980.2	2846.9	1867.6
75°	15938.2	15523.2	16979.4	21788.5	26746.9	27012.7	18978.1	7113.6	2730.4	1754.7	1314.2
77.5°	7266.5	7448.5	9345.2	14616.7	20612.7	20925.7	12476.1	3076.2	1496.3	1230.5	968.4
80°	2333.6	2450.1	3636.9	7266.5	12920.2	13484.5	5766.6	1398.0	1066.7	942.9	724.5
82.5°	891.9	888.3	1525.4	3021.6	6123.4	6483.8	2107.9	851.9	793.6	695.3	513.3
85°	313.1	327.6	575.2	1194.1	2410.0	2522.9	731.7	473.3	549.7	466.0	294.9
87.5°	109.2	112.9	203.9	433.2	830.0	877.4	203.9	189.3	273.0	269.4	149.3
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°	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6	4936.6
2.5°	4987.5	5020.3	5031.2	5162.3	5162.3	5162.3	5213.2	5213.2	5198.7	5162.3	5249.6
5°	5009.4	5067.6	5180.5	5293.3	5322.4	5347.9	5417.1	5358.9	5380.7	5344.3	5377.1
7.5°	5071.3	5151.3	5362.5	5431.7	5384.3	5438.9	5366.1	5326.1	5286.0	5300.6	5249.6
10°	5176.8	5278.8	5377.1	5504.5	5413.5	5358.9	5209.6	5173.2	5045.8	5002.1	5042.1
12.5°	5307.9	5431.7	5599.1	5551.8	5377.1	5220.5	5060.3	4907.4	4831.0	4721.8	4750.9
15°	5438.9	5580.9	5606.4	5526.3	5307.9	5111.3	4820.1	4605.3	4528.8	4430.5	4481.5
17.5°	5580.9	5715.6	5671.9	5464.4	5169.5	4871.0	4539.7	4328.6	4168.4	4106.5	4106.5
20°	5792.1	5857.6	5788.4	5362.5	5002.1	4608.9	4288.5	4048.3	3888.1	3862.6	3822.6
22.5°	5955.9	6061.5	5752.0	5213.2	4758.2	4266.7	3899.0	3808.0	3760.7	3720.6	3669.6
25°	6167.0	6163.4	5686.5	5074.9	4339.5	3859.0	3636.9	3629.6	3607.8	3593.2	3662.4
27.5°	6367.3	6283.5	5610.0	4732.7	3906.3	3549.5	3429.4	3509.5	3542.2	3520.4	3549.5
30°	6684.0	6545.7	5500.8	4368.6	3524.0	3236.4	3258.3	3367.5	3422.1	3454.9	3411.2
32.5°	7018.9	6807.8	5275.1	3990.0	3185.5	3039.8	3090.8	3203.7	3269.2	3305.6	3345.6
35°	7503.1	7011.7	5045.8	3494.9	2941.5	2919.7	2948.8	3010.7	3105.4	3130.9	3141.8
37.5°	8100.2	7321.1	4736.3	3098.1	2752.2	2777.7	2806.8	2828.7	2832.3	2879.7	2861.5
40°	8697.2	7583.2	4284.9	2719.5	2555.6	2694.0	2679.4	2639.4	2606.6	2562.9	2552.0
42.5°	9221.4	7812.6	3782.5	2399.1	2380.9	2606.6	2559.3	2457.4	2380.9	2348.1	2293.5
45°	9811.2	8136.6	3276.5	2198.9	2246.2	2501.0	2486.5	2329.9	2231.6	2115.1	2100.6
47.5°	10575.7	8475.1	2792.3	1991.4	2118.8	2461.0	2468.3	2268.0	2126.1	1969.5	1947.7
50°	11555.0	8963.0	2424.6	1904.0	2042.3	2402.7	2413.7	2184.3	1998.6	1838.5	1823.9
52.5°	12494.3	9461.7	2118.8	1769.3	1991.4	2333.6	2359.1	2107.9	1893.1	1692.8	1703.8
55°	12967.5	9279.7	1856.7	1671.0	1874.9	2220.7	2315.4	2053.3	1732.9	1594.5	1590.9
57.5°	13073.1	8831.9	1649.2	1569.1	1776.6	2100.6	2242.6	1889.4	1660.1	1543.6	1529.0
60°	12727.3	8049.2	1485.3	1459.9	1652.8	1976.8	2075.1	1802.1	1587.3	1492.6	1470.8
62.5°	11875.4	7237.4	1372.5	1408.9	1547.2	1842.1	1969.5	1740.2	1518.1	1452.6	1405.2
65°	9738.4	5952.3	1281.5	1310.6	1438.0	1711.0	1904.0	1671.0	1456.2	1394.3	1390.7
67.5°	6745.9	4102.9	1208.7	1263.3	1350.6	1616.4	1838.5	1594.5	1376.1	1354.3	1325.2
70°	3454.9	2188.0	1114.0	1157.7	1256.0	1496.3	1722.0	1514.5	1292.4	1288.7	1252.3
72.5°	1751.1	1281.5	1004.8	1070.3	1139.5	1339.7	1576.3	1408.9	1186.8	1146.8	1088.5
73°	1514.5	1186.8	986.6	1044.8	1110.4	1296.0	1532.7	1383.4	1172.2	1114.0	1059.4
75°	1103.1	935.6	884.6	942.9	993.9	1168.6	1387.0	1266.9	1077.6	1015.7	964.7
77.5°	826.4	720.8	735.4	800.9	844.6	1008.4	1234.1	1146.8	975.7	891.9	870.1
80°	608.0	549.7	608.0	669.9	702.6	888.3	1124.9	993.9	822.8	728.1	709.9
82.5°	433.2	400.5	469.6	509.7	524.2	735.4	1012.1	793.6	622.5	498.8	458.7
85°	247.6	243.9	316.7	313.1	324.0	429.6	666.2	527.9	400.5	305.8	298.5
87.5°	109.2	120.1	160.2	127.4	134.7	203.9	284.0	196.6	163.8	91.0	69.2
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)