

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: P478067

Luminaire Tested: **IFLD-L-SA7D-727-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478067
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-727-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

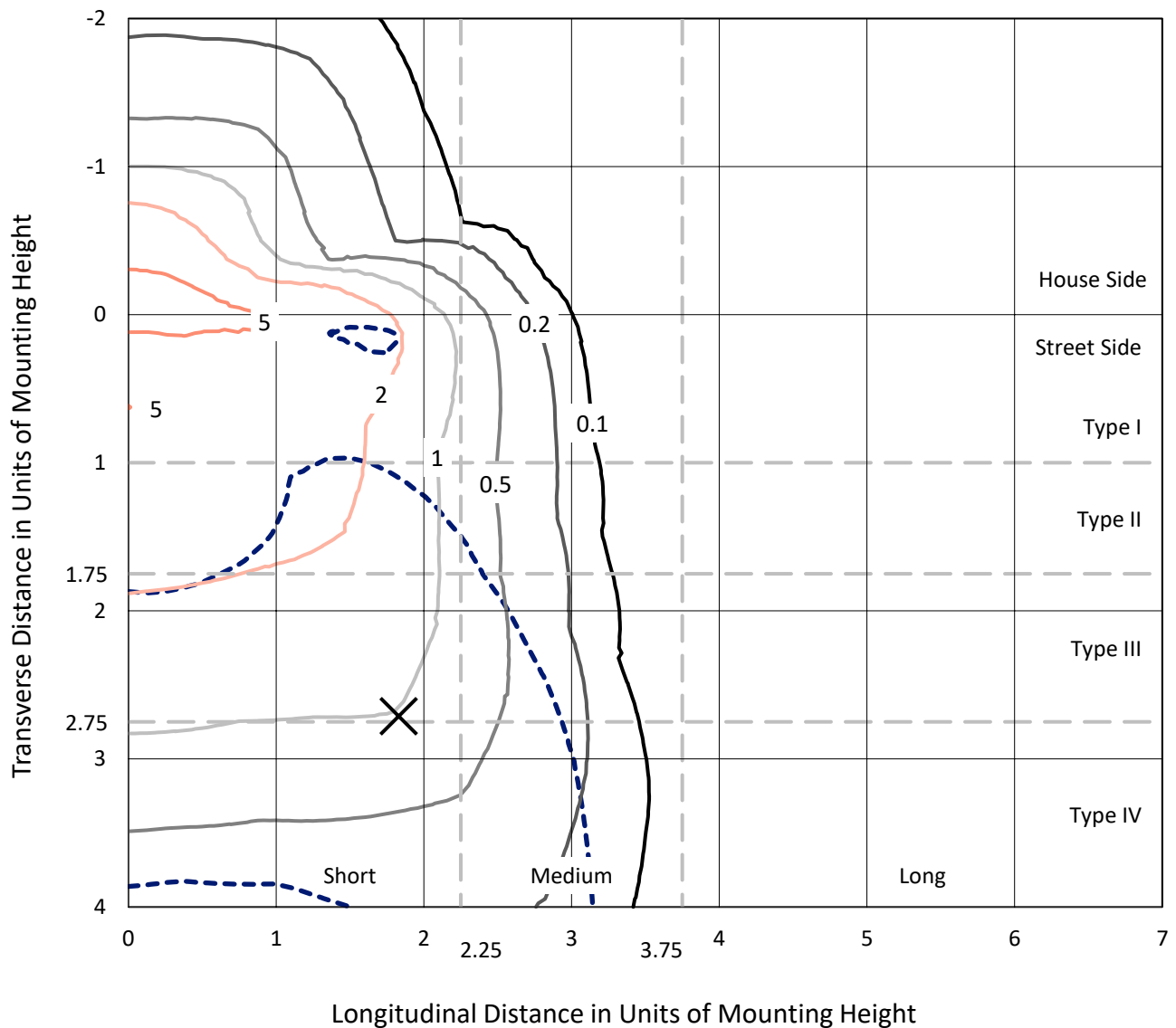
Lumens per Lamp: N/A
Luminaire Lumens: 41793 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 422.6
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

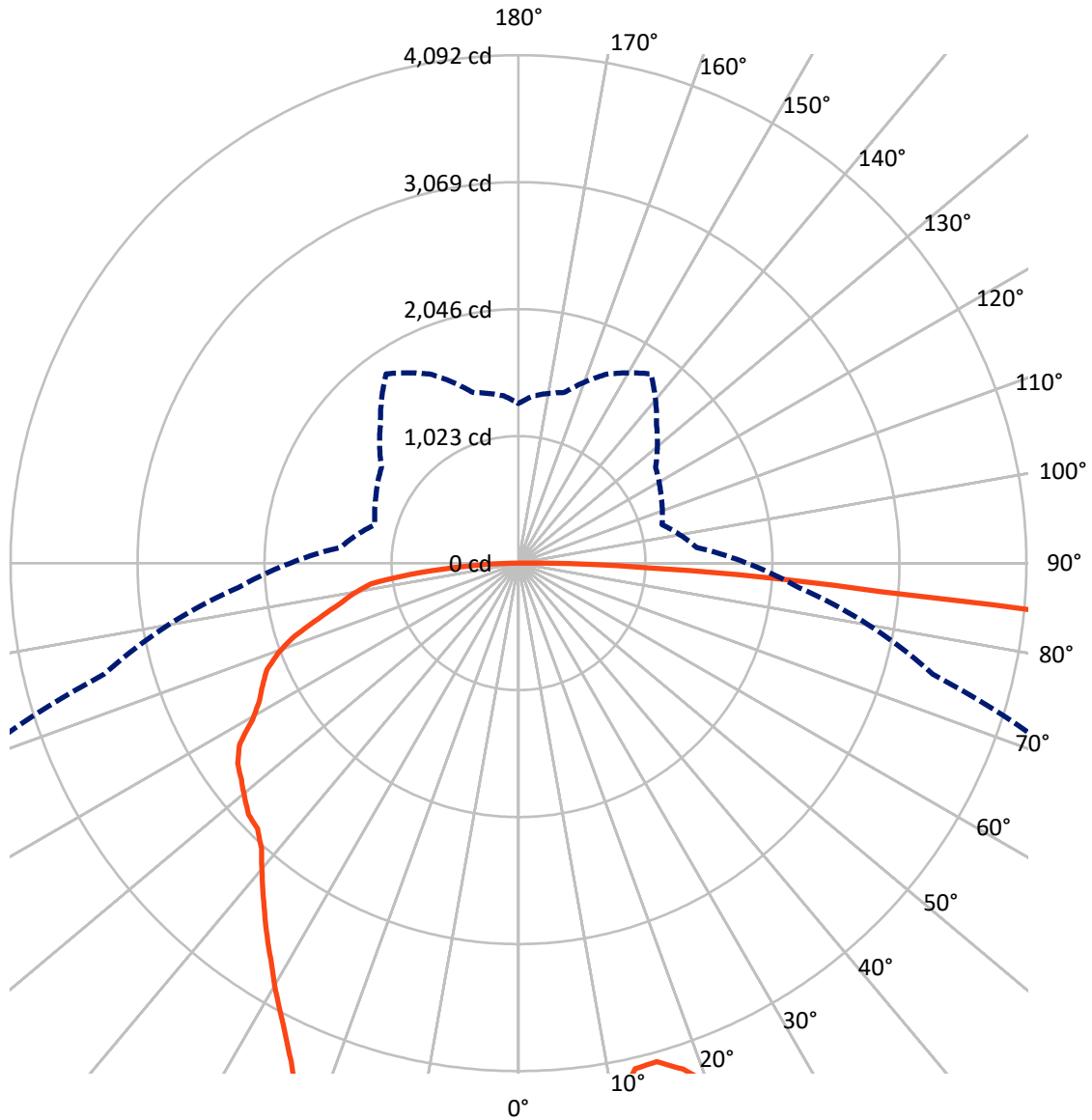
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 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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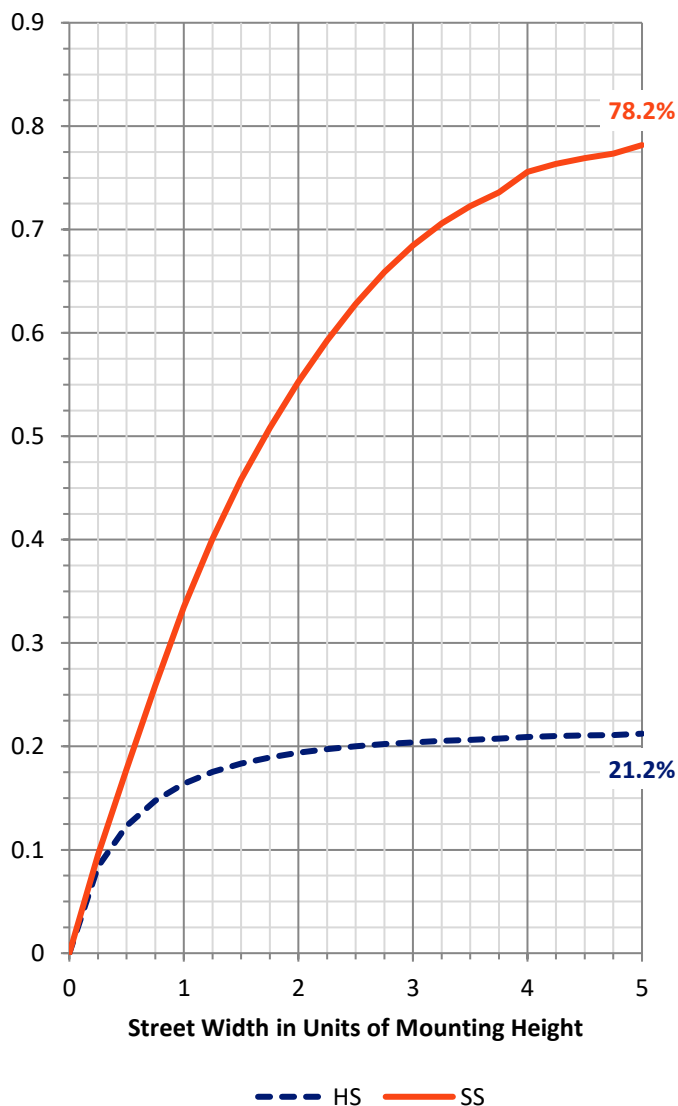
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9027.8	0.0	9027.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	32765.2	0.0	32765.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	41793.0	0.0	41793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.0	1.3
10°-20°	1547.6	3.7
20°-30°	2547.2	6.1
30°-40°	3809.3	9.1
40°-50°	5647.1	13.5
50°-60°	8138.0	19.5
60°-70°	10385.2	24.8
70°-80°	8081.4	19.3
80°-90°	1084.2	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°	41793.0	100.0
0°-180°	41793.0	100.0

Coefficient of Utilization



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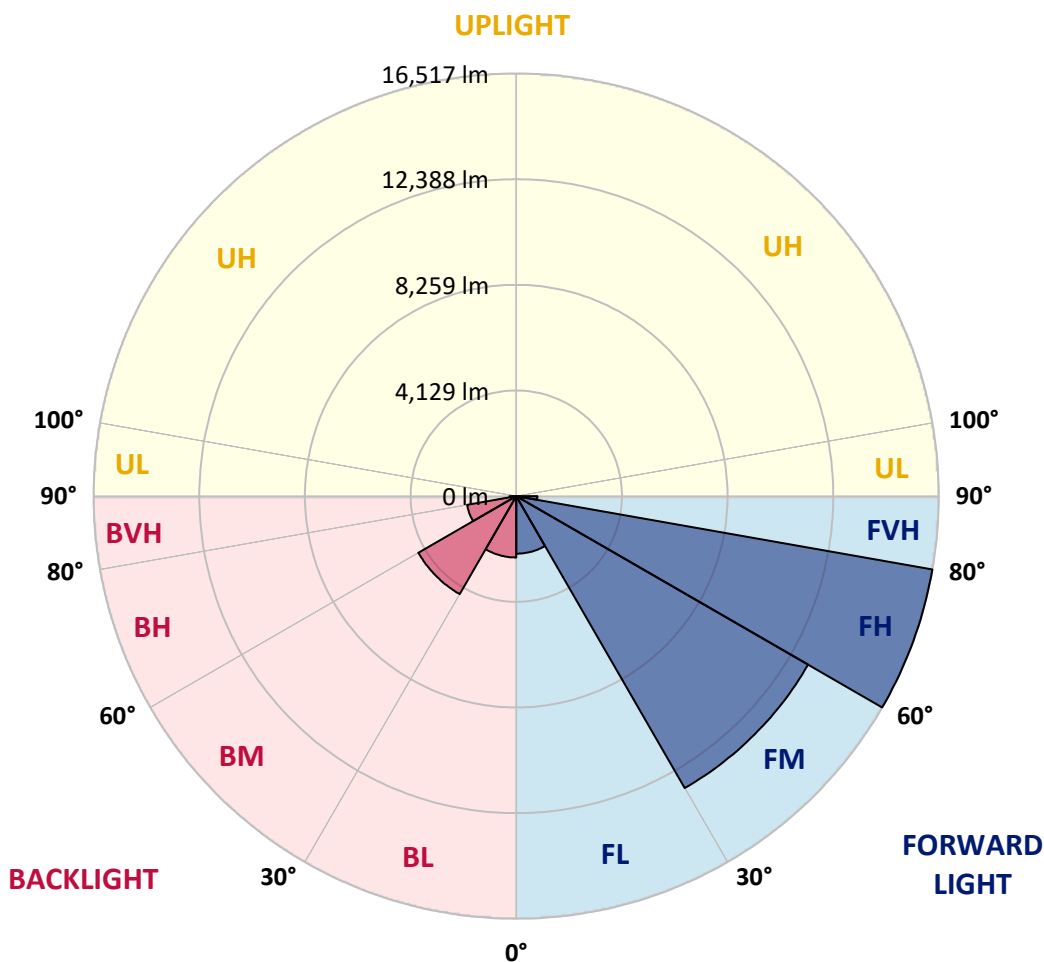
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2249.2	5.4			
FM (30°-60°)	13173.4	31.5			
FH (60°-80°)	16517.4	39.5			G5
FVH (80°-90°)	825.2	2.0			G5
BL (0°-30°)	2398.6	5.7	B3/2500		
BM (30°-60°)	4421.0	10.6	B3/5000		
BH (60°-80°)	1949.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	258.9	0.6			G3/500
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°	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7
2.5°	5368.7	5386.3	5443.8	5457.0	5518.9	5483.5	5558.7	5691.2	5766.3	5876.8	6009.4
5°	4944.5	4869.4	4904.7	5041.7	5112.4	5130.1	5209.6	5434.9	5576.3	5739.8	5987.3
7.5°	4445.2	4431.9	4502.6	4591.0	4732.4	4745.6	4922.4	5121.2	5412.8	5775.2	6066.8
10°	4104.9	4162.4	4202.1	4294.9	4392.1	4392.1	4617.5	4962.1	5293.5	5642.6	6084.5
12.5°	4087.3	4051.9	4060.7	4109.3	4180.0	4268.4	4480.5	4789.8	5209.6	5616.1	6159.6
15°	4144.7	4157.9	4078.4	4140.3	4166.8	4197.7	4431.9	4781.0	5156.6	5708.9	6287.7
17.5°	4449.6	4374.5	4250.7	4193.3	4286.1	4286.1	4445.2	4719.1	5165.4	5757.5	6473.3
20°	4688.2	4688.2	4484.9	4423.1	4489.3	4476.1	4586.6	4789.8	5209.6	5854.7	6681.0
22.5°	5090.3	5147.7	4811.9	4683.8	4679.3	4714.7	4811.9	4984.2	5333.3	5991.7	6879.8
25°	5669.1	5682.4	5293.5	5161.0	5019.6	5077.0	5094.7	5267.0	5443.8	6150.8	7105.2
27.5°	6314.2	6305.4	5947.5	5616.1	5523.3	5536.6	5439.4	5554.2	5607.3	6199.4	7427.7
30°	7030.1	6950.5	6681.0	6212.6	6137.5	6053.5	5841.5	5837.0	5947.5	6473.3	7874.0
32.5°	7498.4	7396.8	7211.2	6875.4	6667.7	6676.6	6340.8	6336.3	6239.1	6773.8	8262.9
35°	7958.0	7803.3	7754.7	7410.1	7202.4	7224.5	6955.0	6919.6	6742.9	7228.9	8903.6
37.5°	8510.3	8373.3	8448.5	8187.8	7931.5	7825.4	7701.7	7657.5	7427.7	7869.6	9778.5
40°	9120.1	9075.9	9027.3	8899.2	8744.5	8753.3	8620.8	8576.6	8236.4	8642.9	10618.0
42.5°	9942.0	9774.1	9522.2	9606.1	9685.7	9769.6	9725.4	9610.6	9257.1	9429.4	11554.8
45°	10706.4	10485.5	10021.5	10048.0	10375.0	10441.3	10975.9	10962.7	10251.3	10428.0	12619.7
47.5°	11223.4	11121.7	10843.4	10812.4	11280.8	11276.4	12239.7	12239.7	11298.5	11422.2	13764.1
50°	11992.2	11727.1	11607.8	11762.4	12001.1	12164.5	13529.9	13613.9	12328.0	12460.6	15262.0
52.5°	12893.6	12562.2	12261.8	12659.4	13083.6	13189.7	14806.9	14771.5	13119.0	13666.9	17016.2
55°	13640.4	13472.5	13264.8	13494.6	14188.3	14320.8	16088.3	15761.3	13909.9	14665.5	17860.2
57.5°	14510.8	14612.5	14656.7	14599.2	15425.5	15633.2	17550.9	16614.1	14590.4	15337.1	18355.1
60°	15823.2	15885.0	15942.5	16079.5	16954.4	17246.0	18708.6	17683.4	15019.0	15726.0	18394.8
62.5°	17820.4	17581.8	17709.9	18182.7	18885.3	19216.7	20414.2	18434.6	15346.0	15960.2	17095.8
65°	20104.9	19782.3	19649.7	20259.5	22080.0	21814.9	22543.9	18995.8	14873.2	15085.3	14497.6
67.5°	22420.2	22455.6	22115.3	23339.3	25570.7	25570.7	24523.5	19265.3	13591.8	12226.4	10167.3
70°	24258.4	24368.9	24554.4	26927.2	30462.2	30996.8	26975.9	18160.6	10980.3	8139.2	5558.7
72.5°	24231.9	23900.5	24850.5	29220.5	34907.3	34461.0	27488.4	14360.6	6853.3	3985.6	2549.6
73°	23688.4	23410.0	24448.4	29198.4	35088.5	34668.7	27112.8	13238.3	6044.7	3455.4	2266.8
75°	19344.8	18841.1	20608.6	26445.6	32463.8	32786.4	23034.4	8634.0	3314.0	2129.8	1595.1
77.5°	8819.6	9040.6	11342.7	17740.9	25018.4	25398.4	15142.7	3733.8	1816.1	1493.5	1175.4
80°	2832.4	2973.8	4414.2	8819.6	15681.8	16366.7	6999.1	1696.8	1294.7	1144.4	879.3
82.5°	1082.6	1078.2	1851.4	3667.5	7432.2	7869.6	2558.4	1034.0	963.3	844.0	623.0
85°	380.0	397.7	698.1	1449.3	2925.1	3062.1	888.1	574.4	667.2	565.6	357.9
87.5°	132.6	137.0	247.4	525.8	1007.5	1064.9	247.4	229.8	331.4	327.0	181.2
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°	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7	5991.7
2.5°	6053.5	6093.3	6106.6	6265.6	6265.6	6265.6	6327.5	6327.5	6309.8	6265.6	6371.7
5°	6080.1	6150.8	6287.7	6424.7	6460.1	6491.0	6574.9	6504.3	6530.8	6486.6	6526.3
7.5°	6155.2	6252.4	6508.7	6592.6	6535.2	6601.5	6513.1	6464.5	6415.9	6433.6	6371.7
10°	6283.3	6407.0	6526.3	6681.0	6570.5	6504.3	6323.1	6278.9	6124.2	6071.2	6119.8
12.5°	6442.4	6592.6	6795.9	6738.4	6526.3	6336.3	6141.9	5956.3	5863.5	5731.0	5766.3
15°	6601.5	6773.8	6804.7	6707.5	6442.4	6203.8	5850.3	5589.6	5496.8	5377.5	5439.4
17.5°	6773.8	6937.3	6884.3	6632.4	6274.5	5912.2	5510.1	5253.8	5059.4	4984.2	4984.2
20°	7030.1	7109.6	7025.7	6508.7	6071.2	5594.0	5205.2	4913.5	4719.1	4688.2	4639.6
22.5°	7228.9	7357.1	6981.5	6327.5	5775.2	5178.7	4732.4	4621.9	4564.5	4515.9	4454.0
25°	7485.2	7480.8	6901.9	6159.6	5267.0	4683.8	4414.2	4405.4	4378.9	4361.2	4445.2
27.5°	7728.2	7626.6	6809.1	5744.2	4741.2	4308.2	4162.4	4259.6	4299.3	4272.8	4308.2
30°	8112.6	7944.7	6676.6	5302.4	4277.3	3928.2	3954.7	4087.3	4153.5	4193.3	4140.3
32.5°	8519.2	8262.9	6402.6	4842.8	3866.3	3689.6	3751.4	3888.4	3967.9	4012.1	4060.7
35°	9106.8	8510.3	6124.2	4241.9	3570.3	3543.8	3579.1	3654.2	3769.1	3800.0	3813.3
37.5°	9831.5	8885.9	5748.7	3760.3	3340.5	3371.4	3406.8	3433.3	3437.7	3495.2	3473.1
40°	10556.2	9204.0	5200.8	3300.7	3101.9	3269.8	3252.1	3203.5	3163.8	3110.7	3097.5
42.5°	11192.4	9482.4	4591.0	2911.9	2889.8	3163.8	3106.3	2982.6	2889.8	2850.0	2783.7
45°	11908.3	9875.7	3976.8	2668.9	2726.3	3035.6	3017.9	2827.9	2708.6	2567.2	2549.6
47.5°	12836.2	10286.6	3389.1	2417.0	2571.7	2987.0	2995.8	2752.8	2580.5	2390.5	2364.0
50°	14024.8	10878.7	2942.8	2311.0	2478.9	2916.3	2929.6	2651.2	2425.8	2231.4	2213.7
52.5°	15164.8	11484.1	2571.7	2147.5	2417.0	2832.4	2863.3	2558.4	2297.7	2054.7	2067.9
55°	15739.2	11263.1	2253.5	2028.2	2275.6	2695.4	2810.3	2492.1	2103.3	1935.4	1930.9
57.5°	15867.4	10719.6	2001.6	1904.4	2156.3	2549.6	2721.9	2293.3	2014.9	1873.5	1855.8
60°	15447.6	9769.6	1802.8	1771.9	2006.1	2399.3	2518.6	2187.2	1926.5	1811.6	1785.1
62.5°	14413.6	8784.3	1665.8	1710.0	1877.9	2235.8	2390.5	2112.1	1842.6	1763.0	1705.6
65°	11819.9	7224.5	1555.4	1590.7	1745.4	2076.8	2311.0	2028.2	1767.5	1692.3	1687.9
67.5°	8187.8	4979.8	1467.0	1533.3	1639.3	1961.9	2231.4	1935.4	1670.2	1643.7	1608.4
70°	4193.3	2655.6	1352.1	1405.1	1524.4	1816.1	2090.0	1838.2	1568.6	1564.2	1520.0
72.5°	2125.4	1555.4	1219.5	1299.1	1383.0	1626.1	1913.3	1710.0	1440.5	1391.9	1321.2
73°	1838.2	1440.5	1197.5	1268.2	1347.7	1573.0	1860.3	1679.1	1422.8	1352.1	1285.8
75°	1338.9	1135.6	1073.7	1144.4	1206.3	1418.4	1683.5	1537.7	1307.9	1232.8	1170.9
77.5°	1003.0	874.9	892.6	972.1	1025.1	1224.0	1497.9	1391.9	1184.2	1082.6	1056.1
80°	737.9	667.2	737.9	813.0	852.8	1078.2	1365.4	1206.3	998.6	883.7	861.6
82.5°	525.8	486.1	570.0	618.6	636.3	892.6	1228.4	963.3	755.6	605.4	556.7
85°	300.5	296.0	384.4	380.0	393.3	521.4	808.6	640.7	486.1	371.2	362.3
87.5°	132.6	145.8	194.4	154.7	163.5	247.4	344.7	238.6	198.8	110.5	84.0
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)