

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: P478221

Luminaire Tested: **IFLD-L-SA7B-750-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478221
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-750-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (112) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

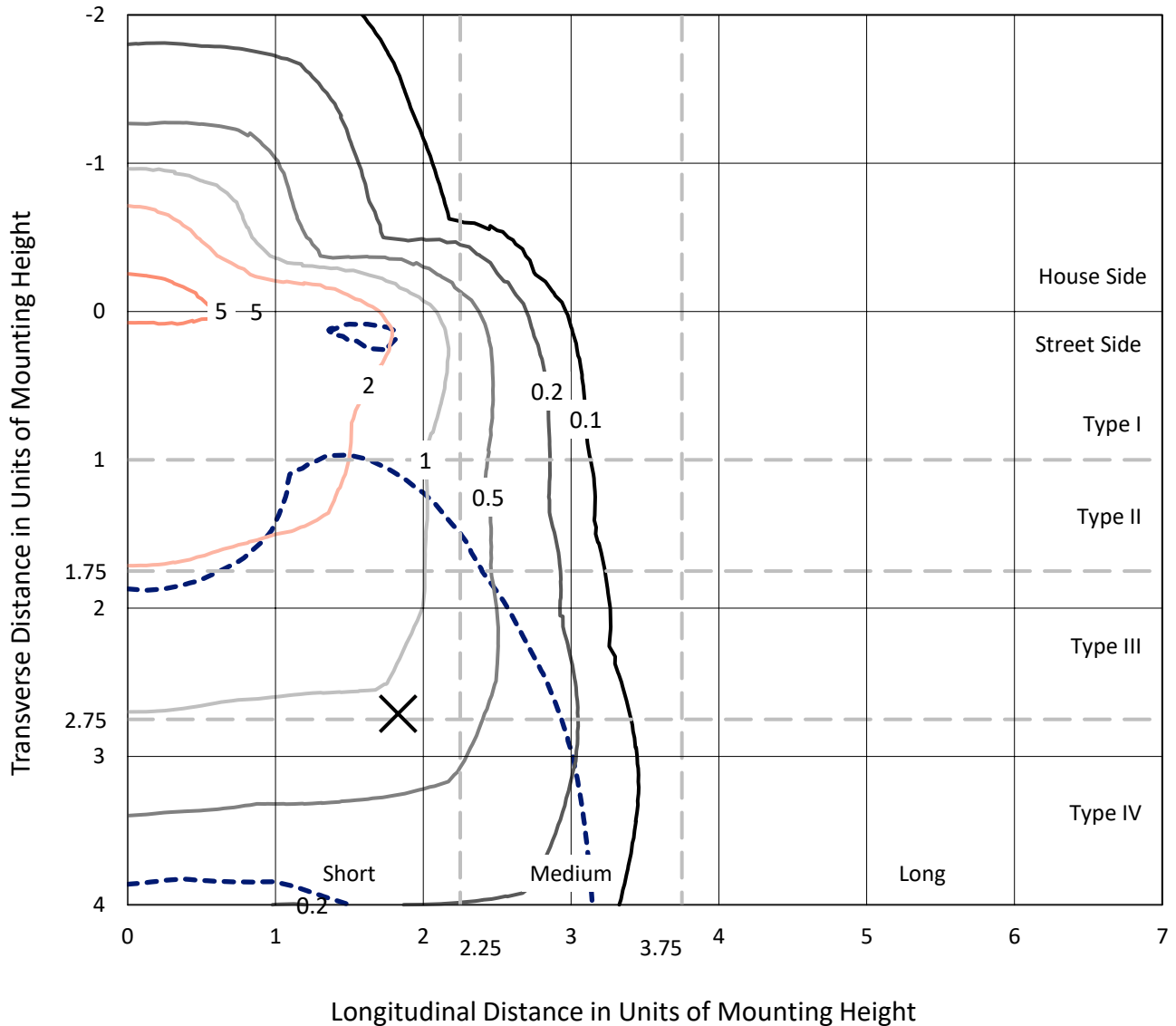
Lumens per Lamp: N/A
Luminaire Lumens: 37319.8 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 281
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

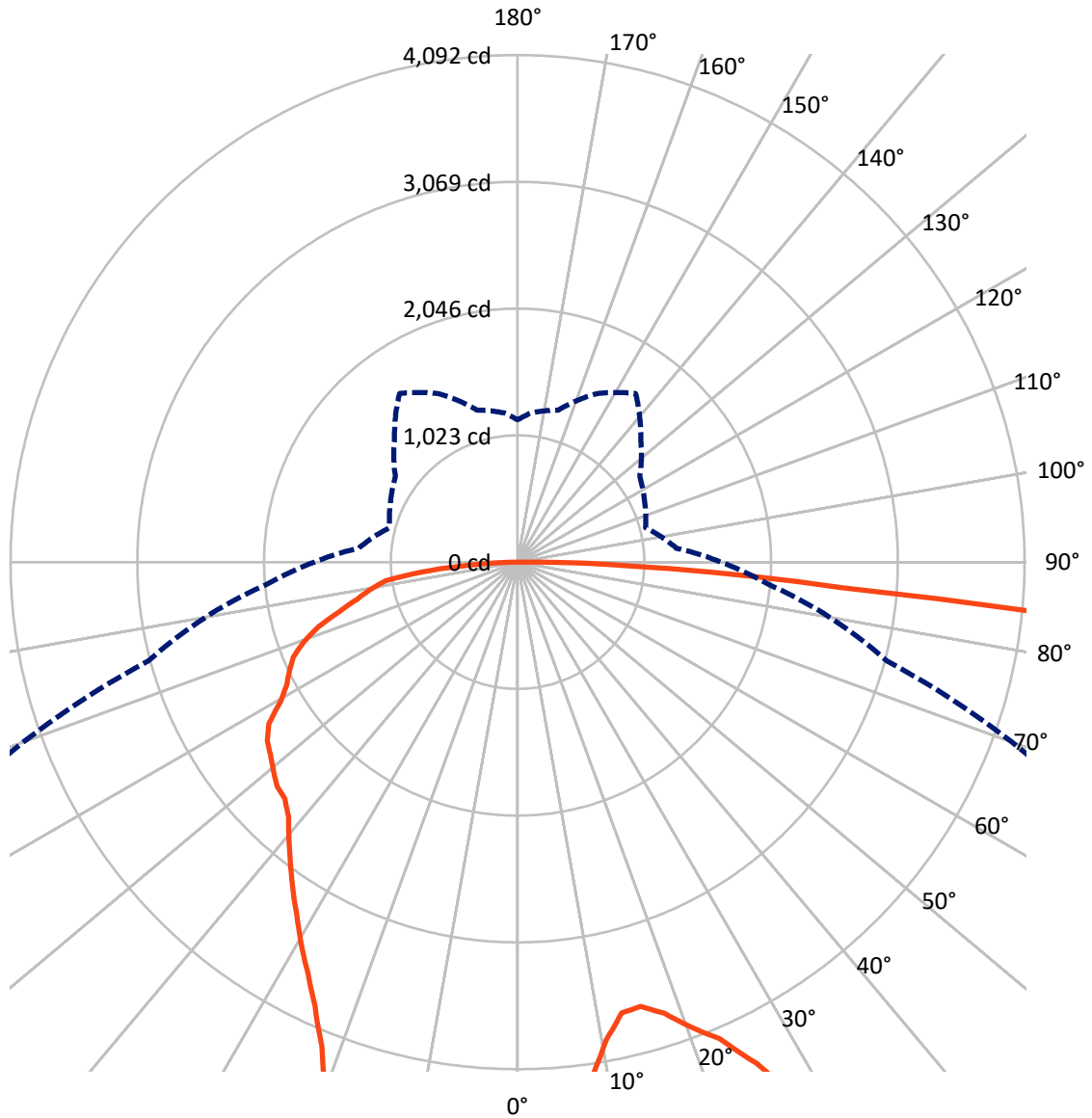
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.2 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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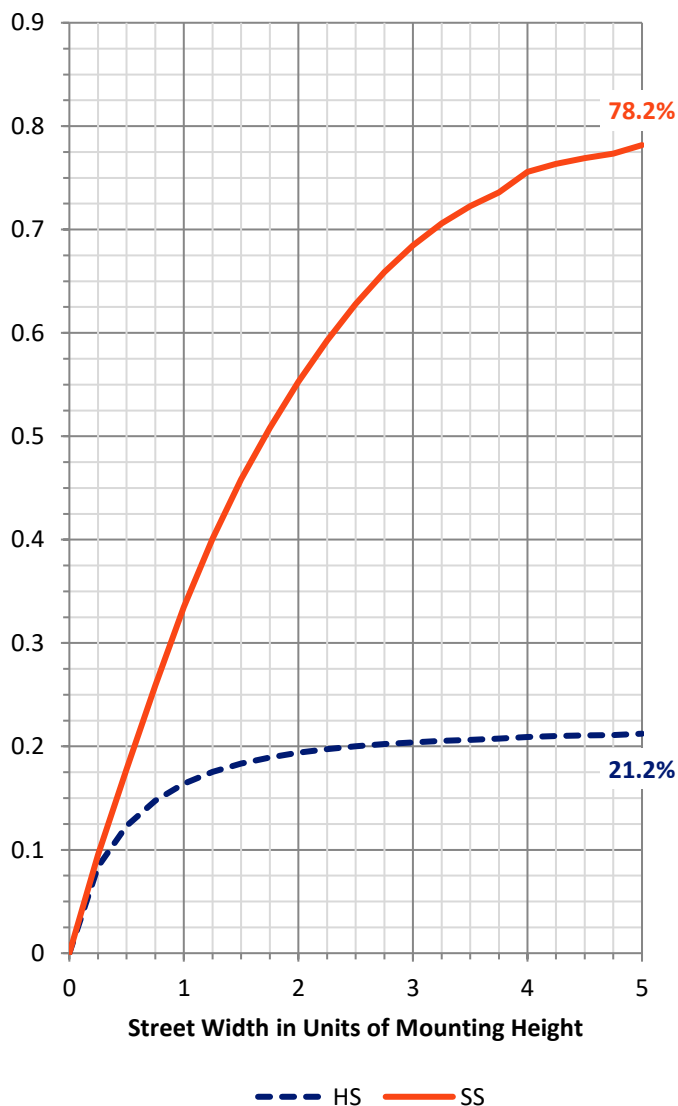
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8061.5	0.0	8061.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	29258.2	0.0	29258.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	37319.8	0.0	37319.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.8	1.3
10°-20°	1382.0	3.7
20°-30°	2274.5	6.1
30°-40°	3401.5	9.1
40°-50°	5042.7	13.5
50°-60°	7267.0	19.5
60°-70°	9273.7	24.8
70°-80°	7216.4	19.3
80°-90°	968.1	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°	37319.8	100.0
0°-180°	37319.8	100.0

Coefficient of Utilization



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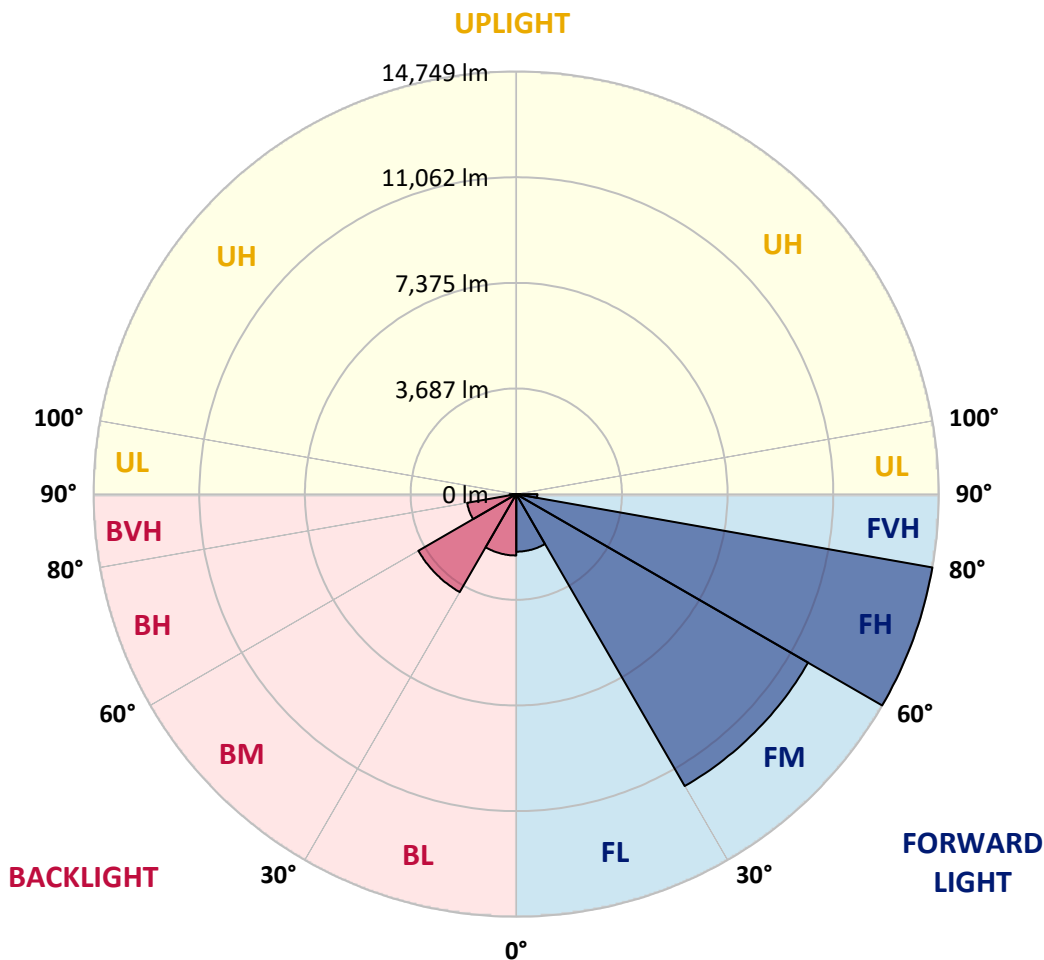
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2008.4	5.4			
FM (30°-60°)	11763.4	31.5			
FH (60°-80°)	14749.4	39.5			G5
FVH (80°-90°)	736.9	2.0			G4/750
BL (0°-30°)	2141.9	5.7	B3/2500		
BM (30°-60°)	3947.8	10.6	B3/5000		
BH (60°-80°)	1740.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	231.2	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°	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4
2.5°	4794.0	4809.8	4861.1	4872.9	4928.2	4896.6	4963.7	5082.1	5149.1	5247.8	5366.2
5°	4415.2	4348.2	4379.7	4502.0	4565.2	4581.0	4652.0	4853.2	4979.5	5125.5	5346.4
7.5°	3969.4	3957.5	4020.7	4099.6	4225.8	4237.7	4395.5	4573.1	4833.5	5157.0	5417.5
10°	3665.6	3716.9	3752.4	3835.2	3922.0	3922.0	4123.3	4431.0	4727.0	5038.7	5433.2
12.5°	3649.8	3618.2	3626.1	3669.5	3732.6	3811.5	4000.9	4277.1	4652.0	5015.0	5500.3
15°	3701.1	3712.9	3641.9	3697.1	3720.8	3748.4	3957.5	4269.3	4604.6	5097.8	5614.7
17.5°	3973.3	3906.2	3795.8	3744.5	3827.3	3827.3	3969.4	4214.0	4612.5	5141.3	5780.5
20°	4186.4	4186.4	4004.9	3949.6	4008.8	3997.0	4095.6	4277.1	4652.0	5228.1	5965.9
22.5°	4545.5	4596.7	4296.9	4182.4	4178.5	4210.1	4296.9	4450.8	4762.5	5350.4	6143.5
25°	5062.3	5074.2	4727.0	4608.6	4482.3	4533.6	4549.4	4703.3	4861.1	5492.4	6344.7
27.5°	5638.4	5630.5	5310.9	5015.0	4932.1	4944.0	4857.2	4959.7	5007.1	5535.8	6632.7
30°	6277.6	6206.6	5965.9	5547.7	5480.6	5405.6	5216.2	5212.3	5310.9	5780.5	7031.2
32.5°	6695.9	6605.1	6439.4	6139.5	5954.1	5962.0	5662.1	5658.1	5571.3	6048.8	7378.5
35°	7106.2	6968.1	6924.7	6616.9	6431.5	6451.2	6210.5	6179.0	6021.1	6455.2	7950.6
37.5°	7599.4	7477.1	7544.2	7311.4	7082.5	6987.8	6877.4	6837.9	6632.7	7027.3	8731.8
40°	8143.9	8104.5	8061.1	7946.6	7808.5	7816.4	7698.1	7658.6	7354.8	7717.8	9481.5
42.5°	8877.8	8727.9	8503.0	8578.0	8649.0	8723.9	8684.5	8581.9	8266.2	8420.1	10318.0
45°	9560.4	9363.2	8948.9	8972.5	9264.5	9323.7	9801.1	9789.3	9154.0	9311.9	11268.9
47.5°	10022.1	9931.3	9682.8	9655.1	10073.4	10069.4	10929.6	10929.6	10089.2	10199.6	12290.9
50°	10708.6	10471.9	10365.4	10503.5	10716.5	10862.5	12081.7	12156.7	11008.5	11126.9	13628.5
52.5°	11513.6	11217.6	10949.3	11304.4	11683.2	11777.9	13222.1	13190.5	11714.8	12204.1	15194.9
55°	12180.4	12030.4	11845.0	12050.2	12669.7	12788.0	14366.3	14074.3	12421.1	13095.8	15948.5
57.5°	12957.7	13048.4	13087.9	13036.6	13774.4	13959.9	15672.3	14835.8	13028.7	13695.5	16390.5
60°	14129.6	14184.8	14236.1	14358.4	15139.7	15400.1	16706.1	15790.7	13411.4	14042.8	16426.0
62.5°	15913.0	15700.0	15814.4	16236.6	16863.9	17159.9	18229.1	16461.5	13703.4	14251.9	15265.9
65°	17952.9	17664.9	17546.5	18091.0	19716.7	19479.9	20131.0	16962.6	13281.2	13470.6	12945.9
67.5°	20020.5	20052.1	19748.2	20841.2	22833.8	22833.8	21898.7	17203.3	12137.0	10917.8	9079.1
70°	21661.9	21760.6	21926.3	24045.1	27201.7	27679.1	24088.5	16216.8	9805.1	7268.0	4963.7
72.5°	21638.2	21342.3	22190.6	26092.9	31171.1	30772.5	24546.2	12823.5	6119.8	3559.0	2276.7
73°	21152.9	20904.3	21831.6	26073.2	31332.8	30958.0	24210.8	11821.3	5397.7	3085.5	2024.1
75°	17274.3	16824.5	18402.8	23615.0	28989.1	29277.1	20569.0	7709.9	2959.3	1901.8	1424.4
77.5°	7875.6	8072.9	10128.6	15842.0	22340.6	22679.9	13521.9	3334.1	1621.7	1333.6	1049.6
80°	2529.2	2655.5	3941.8	7875.6	14003.3	14614.9	6250.0	1515.2	1156.1	1021.9	785.2
82.5°	966.7	962.8	1653.2	3274.9	6636.7	7027.3	2284.6	923.3	860.2	753.6	556.3
85°	339.3	355.1	623.4	1294.2	2612.1	2734.4	793.1	512.9	595.8	505.1	319.6
87.5°	118.4	122.3	221.0	469.5	899.6	950.9	221.0	205.2	295.9	292.0	161.8
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°	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4	5350.4
2.5°	5405.6	5441.1	5453.0	5595.0	5595.0	5595.0	5650.2	5650.2	5634.5	5595.0	5689.7
5°	5429.3	5492.4	5614.7	5737.1	5768.6	5796.2	5871.2	5808.1	5831.7	5792.3	5827.8
7.5°	5496.4	5583.2	5812.0	5887.0	5835.7	5894.9	5816.0	5772.6	5729.2	5744.9	5689.7
10°	5610.8	5721.3	5827.8	5965.9	5867.3	5808.1	5646.3	5606.8	5468.7	5421.4	5464.8
12.5°	5752.8	5887.0	6068.5	6017.2	5827.8	5658.1	5484.5	5318.8	5235.9	5117.6	5149.1
15°	5894.9	6048.8	6076.4	5989.6	5752.8	5539.8	5224.1	4991.3	4908.5	4801.9	4857.2
17.5°	6048.8	6194.8	6147.4	5922.5	5602.9	5279.4	4920.3	4691.4	4517.8	4450.8	4450.8
20°	6277.6	6348.6	6273.7	5812.0	5421.4	4995.3	4648.0	4387.6	4214.0	4186.4	4143.0
22.5°	6455.2	6569.6	6234.2	5650.2	5157.0	4624.4	4225.8	4127.2	4075.9	4032.5	3977.3
25°	6684.0	6680.1	6163.2	5500.3	4703.3	4182.4	3941.8	3933.9	3910.2	3894.4	3969.4
27.5°	6901.0	6810.3	6080.3	5129.4	4233.7	3847.1	3716.9	3803.7	3839.2	3815.5	3847.1
30°	7244.3	7094.4	5962.0	4734.8	3819.4	3507.7	3531.4	3649.8	3709.0	3744.5	3697.1
32.5°	7607.3	7378.5	5717.3	4324.5	3452.5	3294.7	3349.9	3472.2	3543.2	3582.7	3626.1
35°	8132.1	7599.4	5468.7	3787.9	3188.1	3164.5	3196.0	3263.1	3365.7	3393.3	3405.1
37.5°	8779.2	7934.8	5133.4	3357.8	2983.0	3010.6	3042.1	3065.8	3069.8	3121.1	3101.3
40°	9426.3	8218.9	4644.1	2947.4	2769.9	2919.8	2904.0	2860.6	2825.1	2777.8	2765.9
42.5°	9994.5	8467.5	4099.6	2600.2	2580.5	2825.1	2773.8	2663.3	2580.5	2545.0	2485.8
45°	10633.7	8818.6	3551.1	2383.2	2434.5	2710.7	2694.9	2525.3	2418.7	2292.5	2276.7
47.5°	11462.3	9185.6	3026.4	2158.3	2296.4	2667.3	2675.2	2458.2	2304.3	2134.6	2111.0
50°	12523.7	9714.3	2627.8	2063.6	2213.5	2604.2	2616.0	2367.4	2166.2	1992.6	1976.8
52.5°	13541.7	10254.9	2296.4	1917.6	2158.3	2529.2	2556.8	2284.6	2051.8	1834.8	1846.6
55°	14054.6	10057.6	2012.3	1811.1	2032.0	2406.9	2509.5	2225.4	1878.2	1728.2	1724.3
57.5°	14169.0	9572.3	1787.4	1700.6	1925.5	2276.7	2430.6	2047.8	1799.2	1673.0	1657.2
60°	13794.2	8723.9	1609.8	1582.2	1791.3	2142.5	2249.1	1953.1	1720.3	1617.7	1594.1
62.5°	12870.9	7844.1	1487.5	1527.0	1676.9	1996.5	2134.6	1886.0	1645.4	1574.3	1523.0
65°	10554.8	6451.2	1388.9	1420.5	1558.6	1854.5	2063.6	1811.1	1578.3	1511.2	1507.3
67.5°	7311.4	4446.8	1310.0	1369.2	1463.9	1751.9	1992.6	1728.2	1491.5	1467.8	1436.2
70°	3744.5	2371.4	1207.4	1254.7	1361.3	1621.7	1866.3	1641.4	1400.7	1396.8	1357.3
72.5°	1897.9	1388.9	1089.0	1160.0	1235.0	1452.0	1708.5	1527.0	1286.3	1242.9	1179.8
73°	1641.4	1286.3	1069.3	1132.4	1203.4	1404.7	1661.1	1499.4	1270.5	1207.4	1148.2
75°	1195.5	1014.0	958.8	1021.9	1077.2	1266.6	1503.3	1373.1	1167.9	1100.9	1045.6
77.5°	895.7	781.2	797.0	868.1	915.4	1093.0	1337.6	1242.9	1057.4	966.7	943.0
80°	658.9	595.8	658.9	726.0	761.5	962.8	1219.2	1077.2	891.7	789.1	769.4
82.5°	469.5	434.0	509.0	552.4	568.2	797.0	1096.9	860.2	674.7	540.6	497.2
85°	268.3	264.4	343.3	339.3	351.2	465.6	722.1	572.1	434.0	331.4	323.5
87.5°	118.4	130.2	173.6	138.1	146.0	221.0	307.8	213.1	177.6	98.6	75.0
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)