

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: P478186

Luminaire Tested: **IFLD-L-SA8A-740-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478186
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-740-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

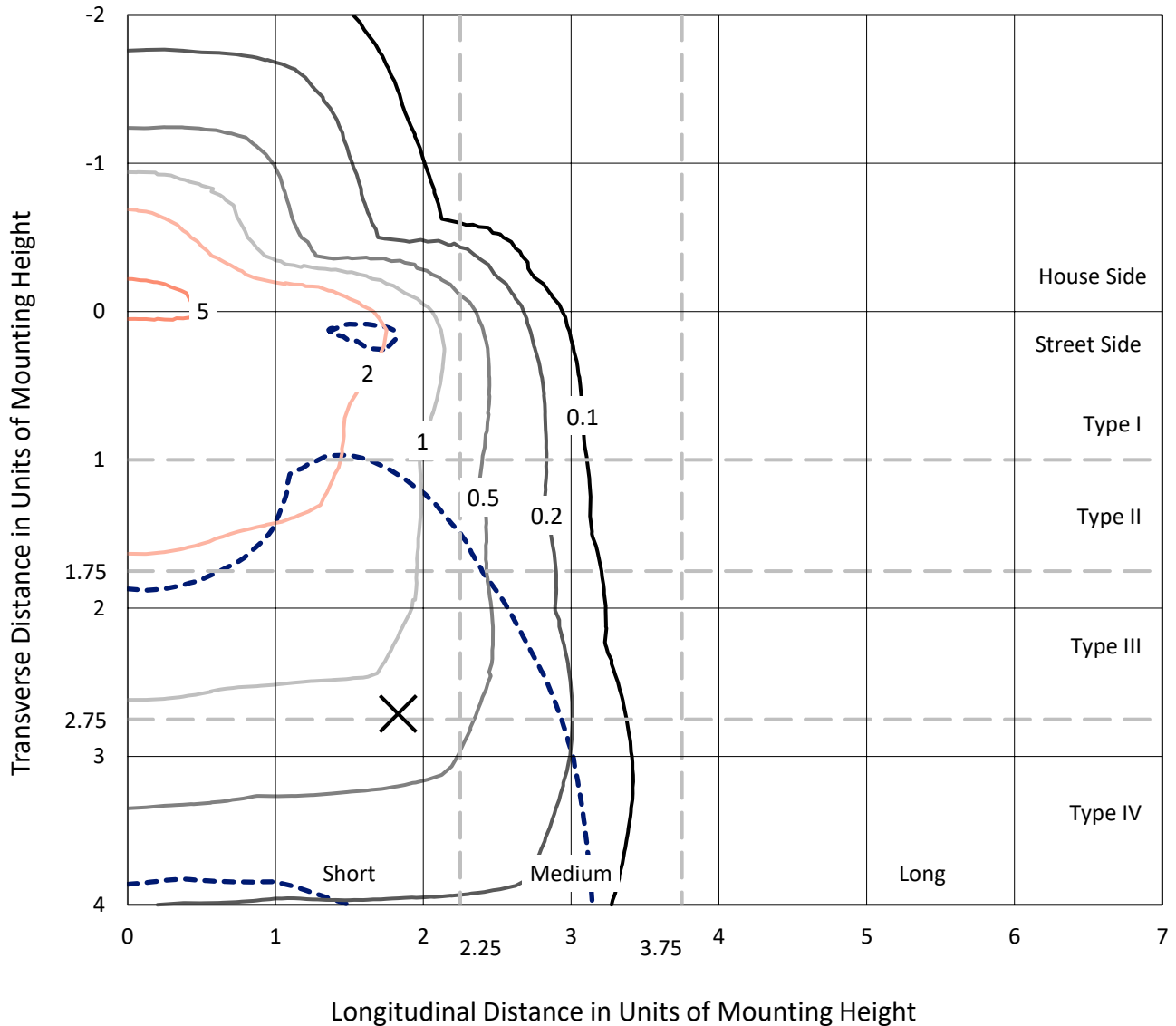
Lumens per Lamp: N/A
Luminaire Lumens: 35095.2 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 247.8
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

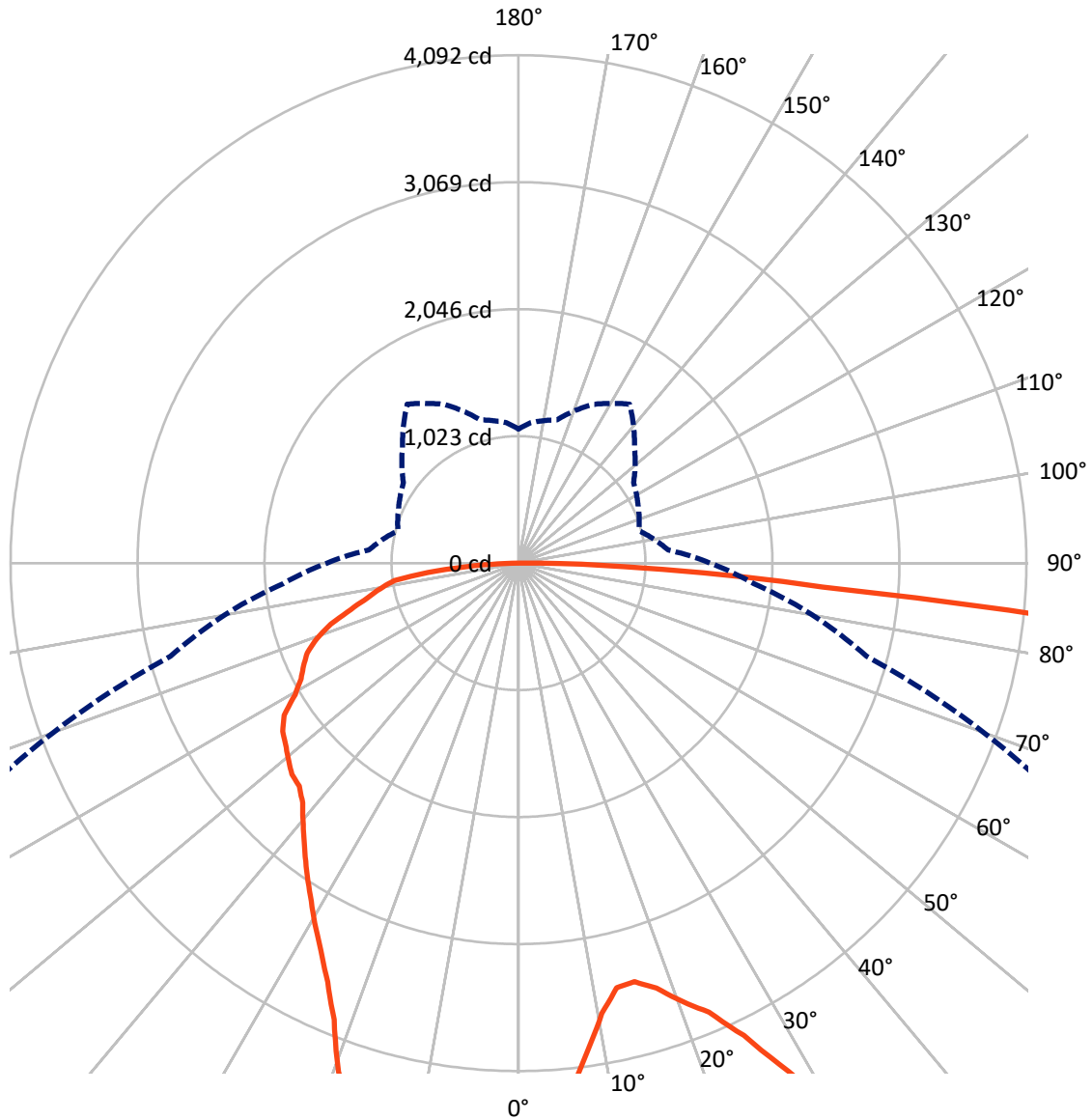
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 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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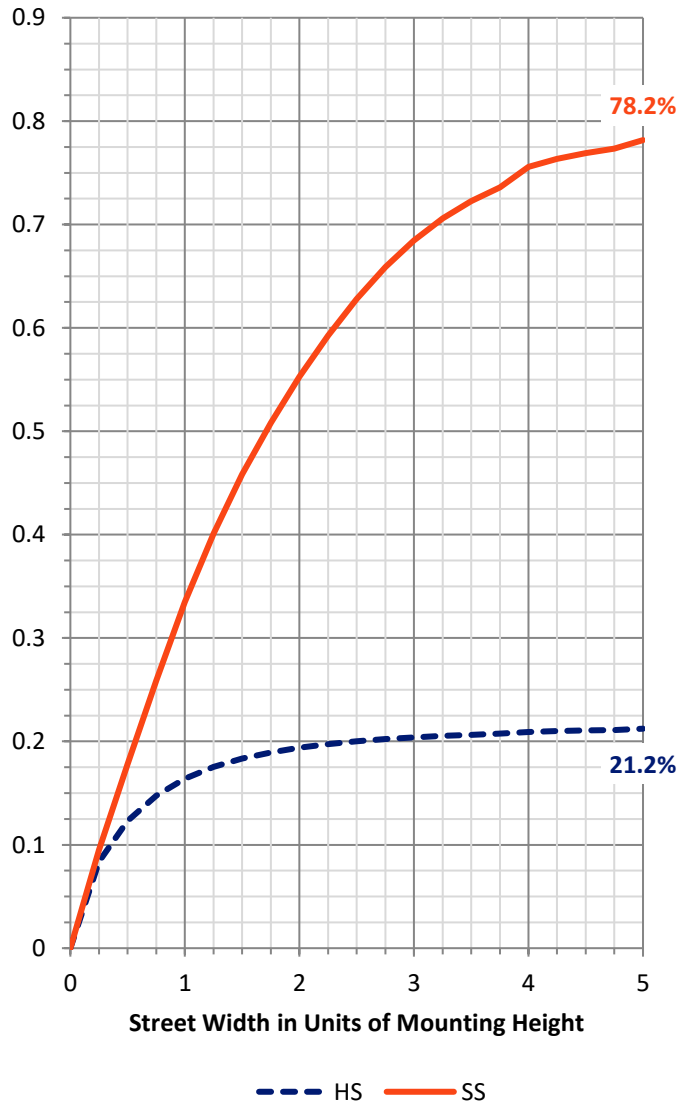
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7581.0	0.0	7581.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	27514.2	0.0	27514.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	35095.2	0.0	35095.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	464.4	1.3
10°-20°	1299.6	3.7
20°-30°	2139.0	6.1
30°-40°	3198.8	9.1
40°-50°	4742.1	13.5
50°-60°	6833.8	19.5
60°-70°	8720.9	24.8
70°-80°	6786.3	19.3
80°-90°	910.4	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°	35095.2	100.0
0°-180°	35095.2	100.0

Coefficient of Utilization



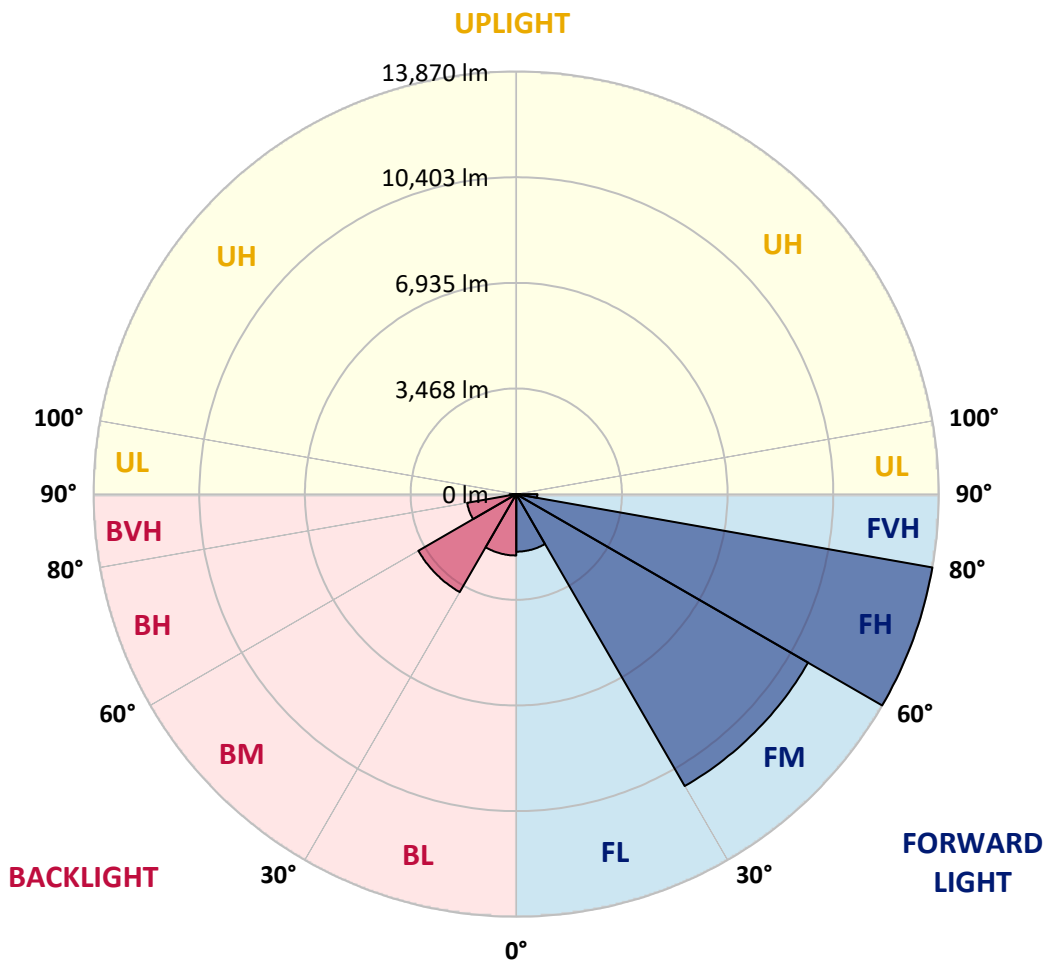
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1888.7	5.4			
FM (30°-60°)	11062.2	31.5			
FH (60°-80°)	13870.3	39.5			G5
FVH (80°-90°)	693.0	2.0			G4/750
BL (0°-30°)	2014.2	5.7	B3/2500		
BM (30°-60°)	3712.4	10.6	B3/5000		
BH (60°-80°)	1636.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	217.4	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°	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5
2.5°	4508.3	4523.1	4571.3	4582.5	4634.4	4604.7	4667.8	4779.1	4842.2	4935.0	5046.3
5°	4152.1	4089.0	4118.7	4233.7	4293.1	4307.9	4374.7	4563.9	4682.7	4820.0	5027.7
7.5°	3732.8	3721.6	3781.0	3855.2	3974.0	3985.1	4133.5	4300.5	4545.4	4849.6	5094.5
10°	3447.1	3495.3	3528.7	3606.6	3688.2	3688.2	3877.5	4166.9	4445.2	4738.3	5109.4
12.5°	3432.2	3402.5	3410.0	3450.8	3510.1	3584.4	3762.5	4022.2	4374.7	4716.1	5172.5
15°	3480.5	3491.6	3424.8	3476.7	3499.0	3525.0	3721.6	4014.8	4330.2	4794.0	5280.1
17.5°	3736.5	3673.4	3569.5	3521.3	3599.2	3599.2	3732.8	3962.8	4337.6	4834.8	5435.9
20°	3936.9	3936.9	3766.2	3714.2	3769.9	3758.7	3851.5	4022.2	4374.7	4916.4	5610.3
22.5°	4274.5	4322.7	4040.7	3933.1	3929.4	3959.1	4040.7	4185.5	4478.6	5031.5	5777.3
25°	4760.6	4771.7	4445.2	4333.9	4215.1	4263.4	4278.2	4422.9	4571.3	5165.0	5966.5
27.5°	5302.3	5294.9	4994.3	4716.1	4638.1	4649.3	4567.6	4664.1	4708.6	5205.8	6237.4
30°	5903.4	5836.6	5610.3	5217.0	5153.9	5083.4	4905.3	4901.6	4994.3	5435.9	6612.1
32.5°	6296.7	6211.4	6055.6	5773.6	5599.2	5606.6	5324.6	5320.9	5239.2	5688.2	6938.7
35°	6682.6	6552.8	6511.9	6222.5	6048.1	6066.7	5840.3	5810.7	5662.2	6070.4	7476.7
37.5°	7146.4	7031.4	7094.5	6875.6	6660.4	6571.3	6467.4	6430.3	6237.4	6608.4	8211.4
40°	7658.5	7621.4	7580.6	7473.0	7343.1	7350.5	7239.2	7202.1	6916.4	7257.8	8916.4
42.5°	8348.6	8207.6	7996.1	8066.6	8133.4	8203.9	8166.8	8070.4	7773.5	7918.2	9703.0
45°	8990.6	8805.0	8415.4	8437.7	8712.3	8767.9	9216.9	9205.8	8608.4	8756.8	10597.2
47.5°	9424.7	9339.4	9105.6	9079.6	9472.9	9469.2	10278.1	10278.1	9487.8	9591.7	11558.2
50°	10070.3	9847.7	9747.5	9877.4	10077.7	10215.0	11361.6	11432.1	10352.3	10463.6	12816.1
52.5°	10827.3	10549.0	10296.7	10630.6	10986.8	11075.9	12433.9	12404.2	11016.5	11476.6	14289.2
55°	11454.3	11313.3	11138.9	11331.9	11914.4	12025.8	13510.0	13235.4	11680.7	12315.2	14997.9
57.5°	12185.3	12270.7	12307.8	12259.5	12953.4	13127.8	14738.1	13951.5	12252.1	12879.2	15413.5
60°	13287.3	13339.3	13387.5	13502.5	14237.2	14482.1	15710.3	14849.5	12612.0	13205.7	15446.9
62.5°	14964.5	14764.1	14871.7	15268.7	15858.7	16137.0	17142.6	15480.2	12886.6	13402.4	14356.0
65°	16882.8	16612.0	16500.6	17012.7	18541.4	18318.8	18931.0	15951.5	12489.6	12667.7	12174.2
67.5°	18827.1	18856.8	18571.1	19598.9	21472.7	21472.7	20593.3	16177.8	11413.5	10267.0	8537.9
70°	20370.7	20463.5	20619.3	22611.8	25580.3	26029.2	22652.7	15250.2	9220.6	6834.8	4667.8
72.5°	20348.4	20070.1	20867.9	24537.6	29313.0	28938.3	23083.1	12059.2	5755.0	3346.9	2141.0
73°	19892.0	19658.3	20530.2	24519.0	29465.2	29112.7	22767.7	11116.7	5076.0	2901.6	1903.5
75°	16244.6	15821.6	17305.8	22207.4	27261.1	27532.0	19342.9	7250.3	2782.9	1788.5	1339.5
77.5°	7406.2	7591.7	9524.9	14897.7	21008.9	21328.0	12715.9	3135.4	1525.0	1254.2	987.0
80°	2378.4	2497.2	3706.8	7406.2	13168.6	13743.7	5877.4	1424.8	1087.2	961.0	738.4
82.5°	909.1	905.4	1554.7	3079.7	6241.1	6608.4	2148.4	868.3	808.9	708.7	523.2
85°	319.1	333.9	586.3	1217.0	2456.4	2571.4	745.8	482.4	560.3	474.9	300.6
87.5°	111.3	115.0	207.8	441.6	846.0	894.2	207.8	192.9	278.3	274.6	152.1
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°	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5	5031.5
2.5°	5083.4	5116.8	5127.9	5261.5	5261.5	5261.5	5313.4	5313.4	5298.6	5261.5	5350.6
5°	5105.7	5165.0	5280.1	5395.1	5424.8	5450.7	5521.2	5461.9	5484.1	5447.0	5480.4
7.5°	5168.7	5250.4	5465.6	5536.1	5487.8	5543.5	5469.3	5428.5	5387.7	5402.5	5350.6
10°	5276.3	5380.2	5480.4	5610.3	5517.5	5461.9	5309.7	5272.6	5142.8	5098.2	5139.1
12.5°	5409.9	5536.1	5706.8	5658.5	5480.4	5320.9	5157.6	5001.8	4923.8	4812.5	4842.2
15°	5543.5	5688.2	5714.2	5632.6	5409.9	5209.6	4912.7	4693.8	4615.9	4515.7	4567.6
17.5°	5688.2	5825.5	5781.0	5569.5	5268.9	4964.7	4627.0	4411.8	4248.5	4185.5	4185.5
20°	5903.4	5970.2	5899.7	5465.6	5098.2	4697.5	4371.0	4126.1	3962.8	3936.9	3896.0
22.5°	6070.4	6178.0	5862.6	5313.4	4849.6	4348.7	3974.0	3881.2	3833.0	3792.1	3740.2
25°	6285.6	6281.9	5795.8	5172.5	4422.9	3933.1	3706.8	3699.4	3677.1	3662.3	3732.8
27.5°	6489.7	6404.3	5717.9	4823.7	3981.4	3617.7	3495.3	3576.9	3610.3	3588.1	3617.7
30°	6812.5	6671.5	5606.6	4452.6	3591.8	3298.6	3320.9	3432.2	3487.9	3521.3	3476.7
32.5°	7153.9	6938.7	5376.5	4066.7	3246.7	3098.3	3150.2	3265.2	3332.0	3369.1	3410.0
35°	7647.4	7146.4	5142.8	3562.1	2998.1	2975.8	3005.5	3068.6	3165.1	3191.0	3202.2
37.5°	8255.9	7461.8	4827.4	3157.6	2805.1	2831.1	2860.8	2883.1	2886.8	2935.0	2916.5
40°	8864.4	7729.0	4367.3	2771.8	2604.8	2745.8	2730.9	2690.1	2656.7	2612.2	2601.1
42.5°	9398.7	7962.8	3855.2	2445.2	2426.7	2656.7	2608.5	2504.6	2426.7	2393.3	2337.6
45°	9999.8	8293.0	3339.5	2241.1	2289.4	2549.1	2534.3	2374.7	2274.5	2155.8	2141.0
47.5°	10779.0	8638.1	2846.0	2029.6	2159.5	2508.3	2515.7	2311.6	2166.9	2007.4	1985.1
50°	11777.2	9135.3	2471.2	1940.6	2081.6	2448.9	2460.1	2226.3	2037.1	1873.8	1859.0
52.5°	12734.5	9643.6	2159.5	1803.3	2029.6	2378.4	2404.4	2148.4	1929.5	1725.4	1736.5
55°	13216.8	9458.1	1892.4	1703.1	1910.9	2263.4	2359.9	2092.7	1766.2	1625.2	1621.5
57.5°	13324.4	9001.7	1680.9	1599.2	1810.7	2141.0	2285.7	1925.8	1692.0	1573.3	1558.4
60°	12971.9	8203.9	1513.9	1487.9	1684.6	2014.8	2115.0	1836.7	1617.8	1521.3	1499.0
62.5°	12103.7	7376.5	1398.9	1436.0	1577.0	1877.5	2007.4	1773.6	1547.3	1480.5	1432.3
65°	9925.6	6066.7	1306.1	1335.8	1465.7	1743.9	1940.6	1703.1	1484.2	1421.1	1417.4
67.5°	6875.6	4181.7	1231.9	1287.5	1376.6	1647.5	1873.8	1625.2	1402.6	1380.3	1350.6
70°	3521.3	2230.0	1135.4	1179.9	1280.1	1525.0	1755.1	1543.6	1317.2	1313.5	1276.4
72.5°	1784.8	1306.1	1024.1	1090.9	1161.4	1365.5	1606.7	1436.0	1209.6	1168.8	1109.4
73°	1543.6	1209.6	1005.5	1064.9	1131.7	1320.9	1562.1	1410.0	1194.8	1135.4	1079.8
75°	1124.3	953.6	901.7	961.0	1013.0	1191.1	1413.7	1291.3	1098.3	1035.2	983.3
77.5°	842.3	734.7	749.5	816.3	860.8	1027.8	1257.9	1168.8	994.4	909.1	886.8
80°	619.7	560.3	619.7	682.7	716.1	905.4	1146.5	1013.0	838.6	742.1	723.5
82.5°	441.6	408.2	478.7	519.5	534.3	749.5	1031.5	808.9	634.5	508.3	467.5
85°	252.3	248.6	322.8	319.1	330.2	437.8	679.0	538.0	408.2	311.7	304.3
87.5°	111.3	122.4	163.3	129.9	137.3	207.8	289.4	200.4	167.0	92.8	70.5
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)