

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: P478132

Luminaire Tested: **IFLD-S-SA6A-735-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478132
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-735-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

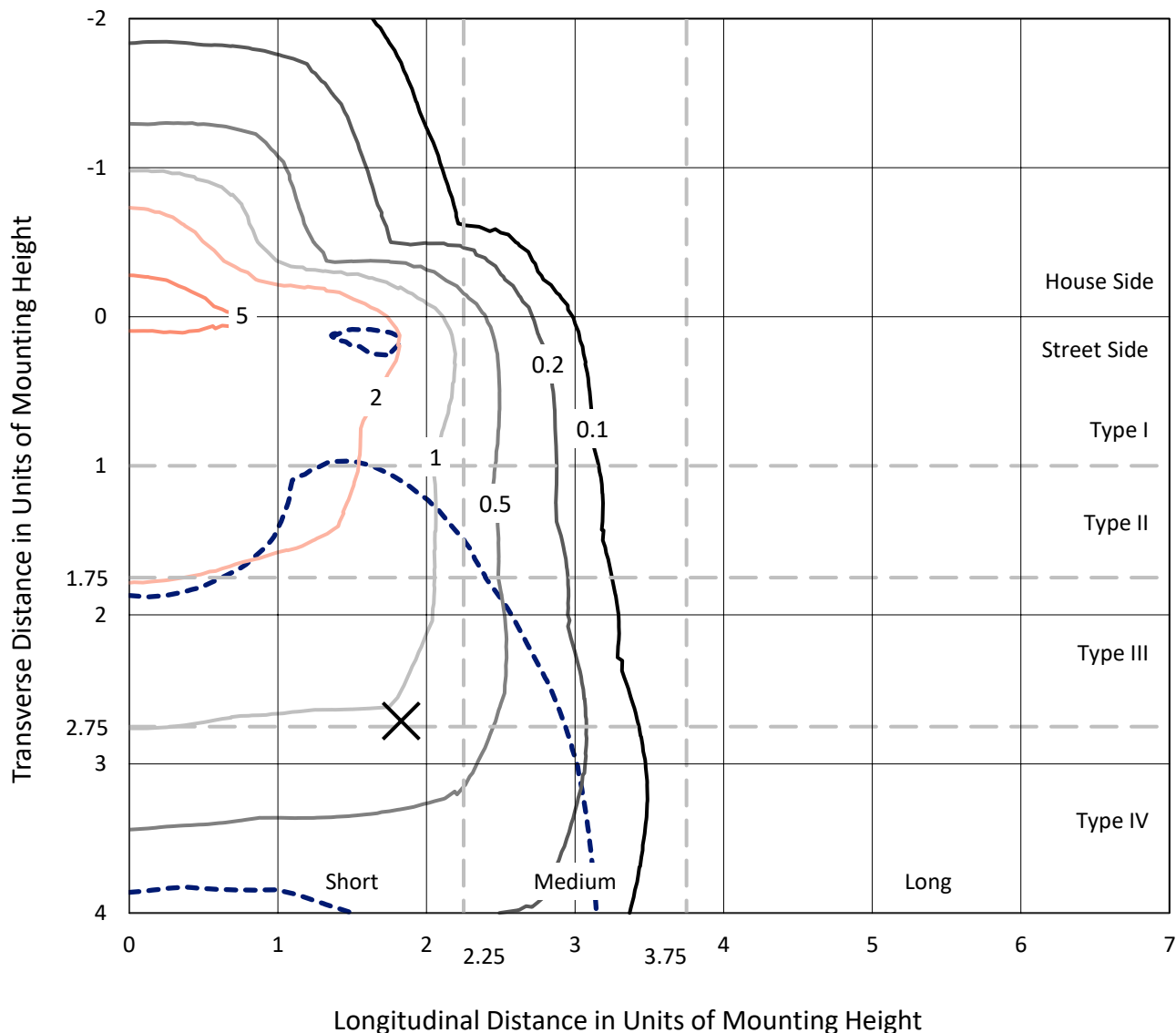
Lumens per Lamp: N/A
Luminaire Lumens: 27272.1 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 189.6
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

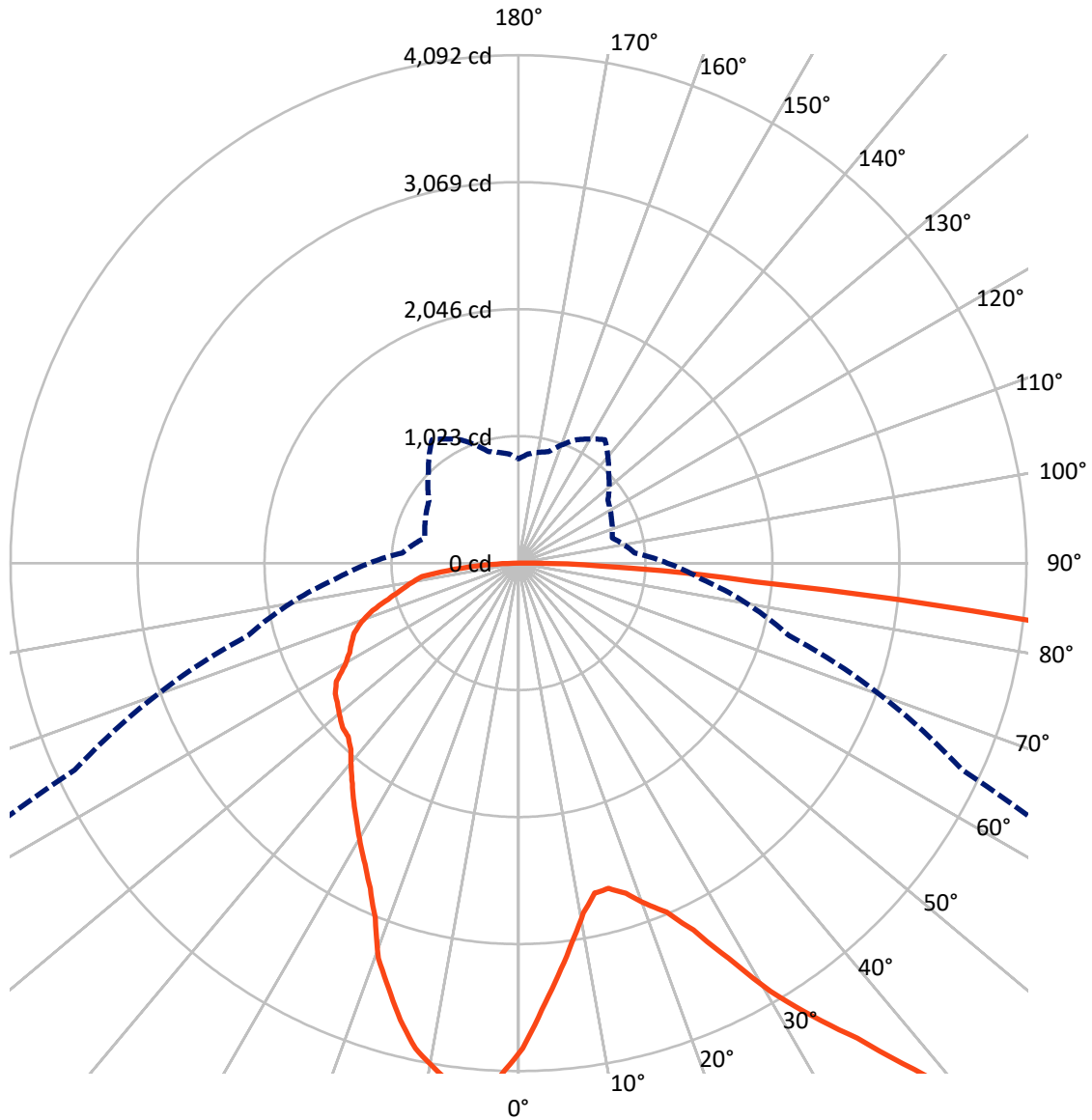
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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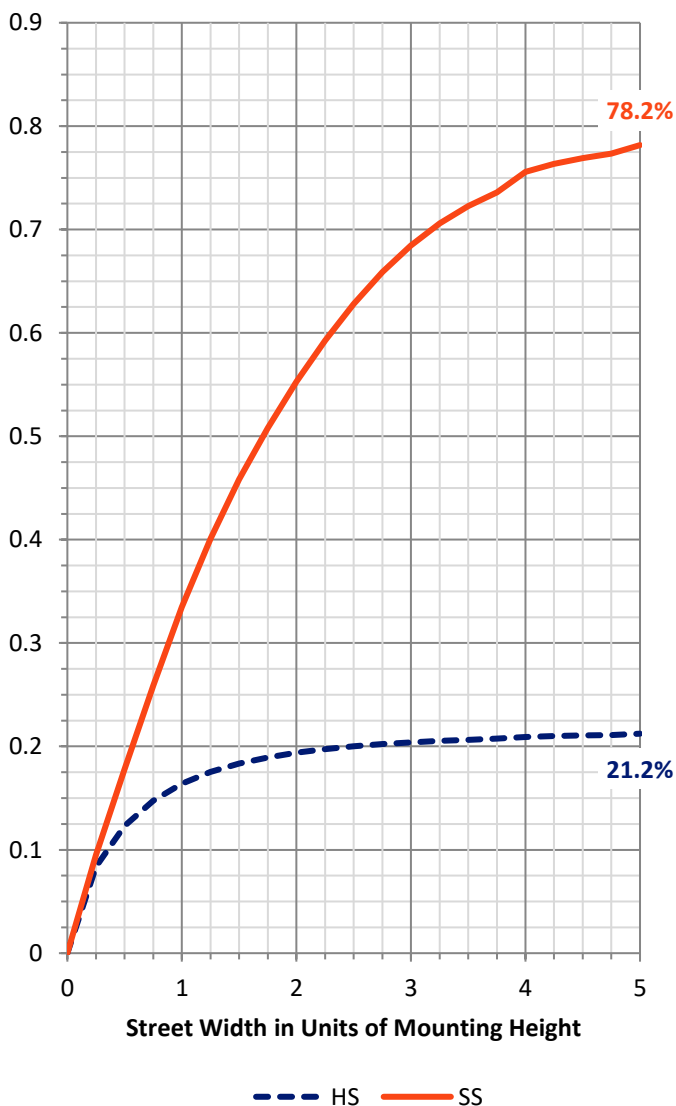
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5891.1	0.0	5891.1
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21381.0	0.0	21381.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	27272.1	0.0	27272.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.9	1.3
10°-20°	1009.9	3.7
20°-30°	1662.2	6.1
30°-40°	2485.7	9.1
40°-50°	3685.0	13.5
50°-60°	5310.5	19.5
60°-70°	6776.9	24.8
70°-80°	5273.6	19.3
80°-90°	707.5	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°	27272.1	100.0
0°-180°	27272.1	100.0



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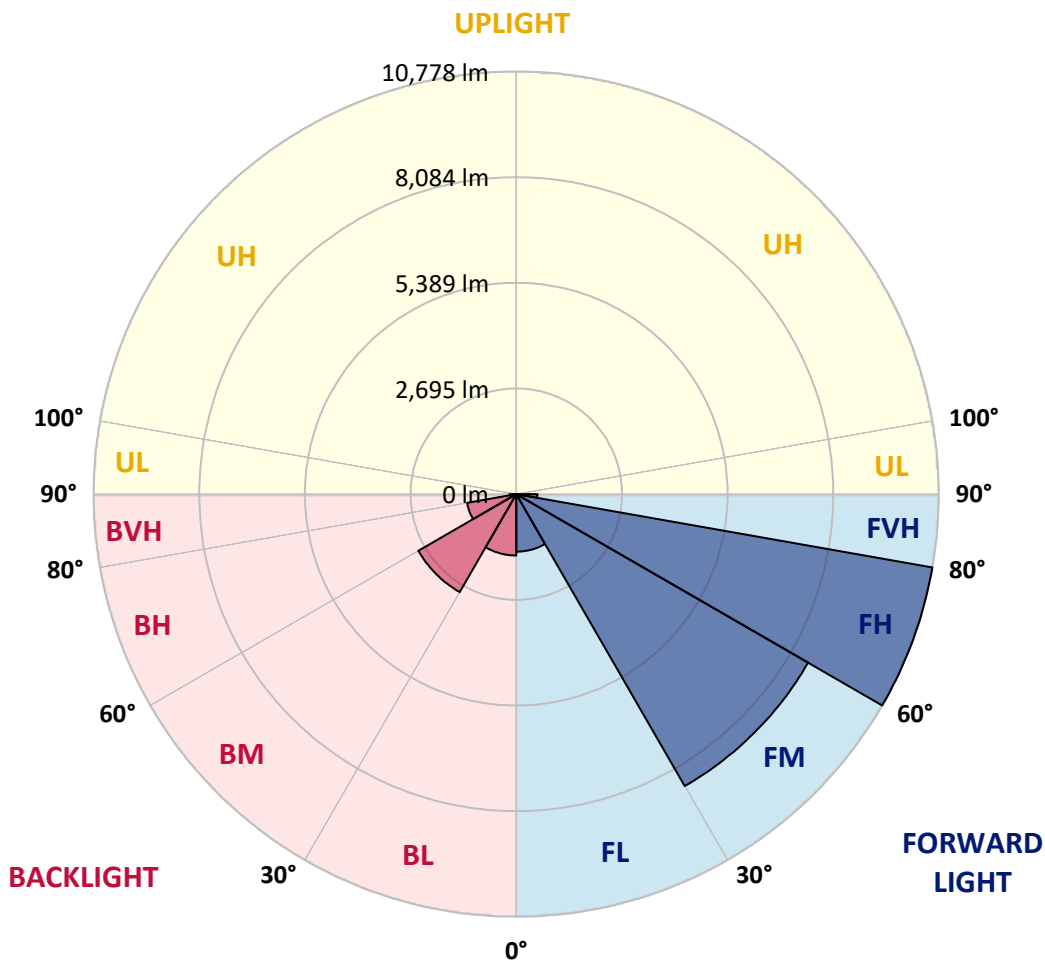
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1467.7	5.4			
FM (30°-60°)	8596.4	31.5			
FH (60°-80°)	10778.4	39.5			G4/12000
FVH (80°-90°)	538.5	2.0			G4/750
BL (0°-30°)	1565.2	5.7	B3/2500		
BM (30°-60°)	2884.9	10.6	B3/5000		
BH (60°-80°)	1272.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	169.0	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	3503.3	3514.9	3552.3	3561.0	3601.4	3578.3	3627.3	3713.8	3762.8	3834.9	3921.4
5°	3226.5	3177.5	3200.6	3290.0	3336.1	3347.6	3399.5	3546.6	3638.9	3745.5	3907.0
7.5°	2900.7	2892.0	2938.2	2995.9	3088.1	3096.8	3212.1	3341.9	3532.2	3768.6	3958.9
10°	2678.7	2716.2	2742.1	2802.7	2866.1	2866.1	3013.2	3238.1	3454.3	3682.1	3970.4
12.5°	2667.1	2644.1	2649.8	2681.6	2727.7	2785.4	2923.8	3125.6	3399.5	3664.8	4019.5
15°	2704.6	2713.3	2661.4	2701.7	2719.0	2739.2	2892.0	3119.8	3364.9	3725.4	4103.1
17.5°	2903.6	2854.6	2773.8	2736.3	2796.9	2796.9	2900.7	3079.5	3370.7	3757.1	4224.2
20°	3059.3	3059.3	2926.7	2886.3	2929.5	2920.9	2993.0	3125.6	3399.5	3820.5	4359.7
22.5°	3321.7	3359.2	3140.0	3056.4	3053.5	3076.6	3140.0	3252.5	3480.3	3909.9	4489.5
25°	3699.4	3708.1	3454.3	3367.8	3275.5	3313.0	3324.6	3437.0	3552.3	4013.7	4636.5
27.5°	4120.4	4114.6	3881.1	3664.8	3604.2	3612.9	3549.5	3624.4	3659.0	4045.4	4847.0
30°	4587.5	4535.6	4359.7	4054.1	4005.0	3950.3	3811.9	3809.0	3881.1	4224.2	5138.2
32.5°	4893.1	4826.8	4705.7	4486.6	4351.1	4356.8	4137.7	4134.8	4071.4	4420.3	5392.0
35°	5193.0	5092.1	5060.4	4835.5	4699.9	4714.4	4538.5	4515.4	4400.1	4717.2	5810.1
37.5°	5553.4	5464.0	5513.1	5342.9	5175.7	5106.5	5025.8	4996.9	4847.0	5135.3	6381.0
40°	5951.3	5922.5	5890.8	5807.2	5706.2	5712.0	5625.5	5596.7	5374.7	5639.9	6928.8
42.5°	6487.6	6378.1	6213.7	6268.5	6320.4	6375.2	6346.4	6271.4	6040.7	6153.2	7540.1
45°	6986.5	6842.3	6539.6	6556.9	6770.2	6813.5	7162.4	7153.7	6689.5	6804.8	8235.0
47.5°	7323.8	7257.5	7075.9	7055.7	7361.3	7358.4	7987.0	7987.0	7372.9	7453.6	8981.8
50°	7825.5	7652.5	7574.7	7675.6	7831.3	7938.0	8829.0	8883.8	8044.7	8131.2	9959.3
52.5°	8413.8	8197.5	8001.4	8260.9	8537.7	8606.9	9662.3	9639.2	8560.8	8918.4	11104.0
55°	8901.1	8791.5	8656.0	8805.9	9258.6	9345.1	10498.5	10285.1	9076.9	9570.0	11654.7
57.5°	9469.1	9535.4	9564.2	9526.8	10065.9	10201.5	11452.9	10841.6	9521.0	10008.3	11977.6
60°	10325.5	10365.8	10403.3	10492.7	11063.6	11253.9	12208.3	11539.4	9800.7	10262.0	12003.6
62.5°	11628.8	11473.0	11556.7	11865.2	12323.7	12539.9	13321.3	12029.5	10014.0	10414.8	11155.9
65°	13119.5	12909.0	12822.5	13220.4	14408.3	14235.3	14711.1	12395.7	9705.5	9843.9	9460.4
67.5°	14630.4	14653.4	14431.4	15230.1	16686.2	16686.2	16002.9	12571.6	8869.3	7978.4	6634.7
70°	15829.9	15901.9	16023.1	17571.4	19878.2	20227.0	17603.2	11850.8	7165.2	5311.2	3627.3
72.5°	15812.6	15596.3	16216.2	19067.9	22778.9	22487.6	17937.6	9371.0	4472.2	2600.8	1663.7
73°	15457.9	15276.3	15953.9	19053.5	22897.1	22623.2	17692.5	8638.7	3944.5	2254.8	1479.2
75°	12623.5	12294.8	13448.2	17257.1	21184.3	21394.8	15031.2	5634.2	2162.5	1389.8	1040.9
77.5°	5755.3	5899.4	7401.7	11576.9	16325.8	16573.8	9881.4	2436.5	1185.1	974.6	767.0
80°	1848.3	1940.5	2880.5	5755.3	10233.2	10680.1	4567.3	1107.2	844.8	746.8	573.8
82.5°	706.4	703.5	1208.1	2393.2	4849.9	5135.3	1669.5	674.7	628.6	550.7	406.6
85°	248.0	259.5	455.6	945.8	1908.8	1998.2	579.6	374.8	435.4	369.1	233.6
87.5°	86.5	89.4	161.5	343.1	657.4	694.9	161.5	149.9	216.3	213.4	118.2
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°	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	3950.3	3976.2	3984.9	4088.7	4088.7	4088.7	4129.0	4129.0	4117.5	4088.7	4157.9
5°	3967.6	4013.7	4103.1	4192.5	4215.5	4235.7	4290.5	4244.4	4261.7	4232.8	4258.8
7.5°	4016.6	4080.0	4247.2	4302.0	4264.5	4307.8	4250.1	4218.4	4186.7	4198.2	4157.9
10°	4100.2	4180.9	4258.8	4359.7	4287.6	4244.4	4126.1	4097.3	3996.4	3961.8	3993.5
12.5°	4204.0	4302.0	4434.7	4397.2	4258.8	4134.8	4007.9	3886.8	3826.3	3739.8	3762.8
15°	4307.8	4420.3	4440.4	4377.0	4204.0	4048.3	3817.6	3647.5	3586.9	3509.1	3549.5
17.5°	4420.3	4526.9	4492.3	4328.0	4094.4	3858.0	3595.6	3428.4	3301.5	3252.5	3252.5
20°	4587.5	4639.4	4584.6	4247.2	3961.8	3650.4	3396.6	3206.3	3079.5	3059.3	3027.6
22.5°	4717.2	4800.9	4555.8	4129.0	3768.6	3379.3	3088.1	3016.0	2978.6	2946.8	2906.5
25°	4884.5	4881.6	4503.9	4019.5	3437.0	3056.4	2880.5	2874.7	2857.4	2845.9	2900.7
27.5°	5043.1	4976.7	4443.3	3748.4	3093.9	2811.3	2716.2	2779.6	2805.5	2788.2	2811.3
30°	5293.9	5184.4	4356.8	3460.1	2791.1	2563.3	2580.6	2667.1	2710.4	2736.3	2701.7
32.5°	5559.2	5392.0	4178.0	3160.2	2523.0	2407.6	2448.0	2537.4	2589.3	2618.1	2649.8
35°	5942.7	5553.4	3996.4	2768.1	2329.8	2312.5	2335.6	2384.6	2459.5	2479.7	2488.4
37.5°	6415.6	5798.5	3751.3	2453.8	2179.9	2200.0	2223.1	2240.4	2243.3	2280.8	2266.4
40°	6888.4	6006.1	3393.8	2153.9	2024.1	2133.7	2122.2	2090.5	2064.5	2029.9	2021.3
42.5°	7303.7	6187.8	2995.9	1900.2	1885.7	2064.5	2027.0	1946.3	1885.7	1859.8	1816.5
45°	7770.8	6444.4	2595.1	1741.6	1779.1	1980.9	1969.4	1845.4	1767.5	1675.3	1663.7
47.5°	8376.3	6712.6	2211.6	1577.2	1678.1	1949.2	1954.9	1796.4	1683.9	1559.9	1542.6
50°	9151.9	7098.9	1920.3	1508.0	1617.6	1903.0	1911.7	1730.0	1583.0	1456.1	1444.6
52.5°	9895.8	7494.0	1678.1	1401.3	1577.2	1848.3	1868.4	1669.5	1499.4	1340.8	1349.4
55°	10270.7	7349.8	1470.5	1323.5	1485.0	1758.9	1833.8	1626.2	1372.5	1262.9	1260.0
57.5°	10354.3	6995.1	1306.2	1242.7	1407.1	1663.7	1776.2	1496.5	1314.8	1222.6	1211.0
60°	10080.4	6375.2	1176.4	1156.2	1309.1	1565.7	1643.5	1427.3	1257.2	1182.2	1164.9
62.5°	9405.7	5732.2	1087.0	1115.9	1225.4	1459.0	1559.9	1378.3	1202.4	1150.5	1113.0
65°	7713.1	4714.4	1015.0	1038.0	1138.9	1355.2	1508.0	1323.5	1153.4	1104.3	1101.5
67.5°	5342.9	3249.6	957.3	1000.5	1069.7	1280.2	1456.1	1262.9	1089.9	1072.6	1049.6
70°	2736.3	1732.9	882.3	916.9	994.8	1185.1	1363.8	1199.5	1023.6	1020.7	991.9
72.5°	1386.9	1015.0	795.8	847.7	902.5	1061.1	1248.5	1115.9	940.0	908.3	862.1
73°	1199.5	940.0	781.4	827.5	879.4	1026.5	1213.9	1095.7	928.5	882.3	839.1
75°	873.7	741.0	700.7	746.8	787.2	925.6	1098.6	1003.4	853.5	804.5	764.1
77.5°	654.5	570.9	582.4	634.3	668.9	798.7	977.5	908.3	772.8	706.4	689.1
80°	481.5	435.4	481.5	530.5	556.5	703.5	891.0	787.2	651.6	576.7	562.3
82.5°	343.1	317.2	372.0	403.7	415.2	582.4	801.6	628.6	493.1	395.0	363.3
85°	196.1	193.2	250.9	248.0	256.6	340.2	527.7	418.1	317.2	242.2	236.4
87.5°	86.5	95.2	126.9	100.9	106.7	161.5	224.9	155.7	129.8	72.1	54.8
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)