

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: P480051

Luminaire Tested: **IFLD-M-SA4D-730-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480051
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

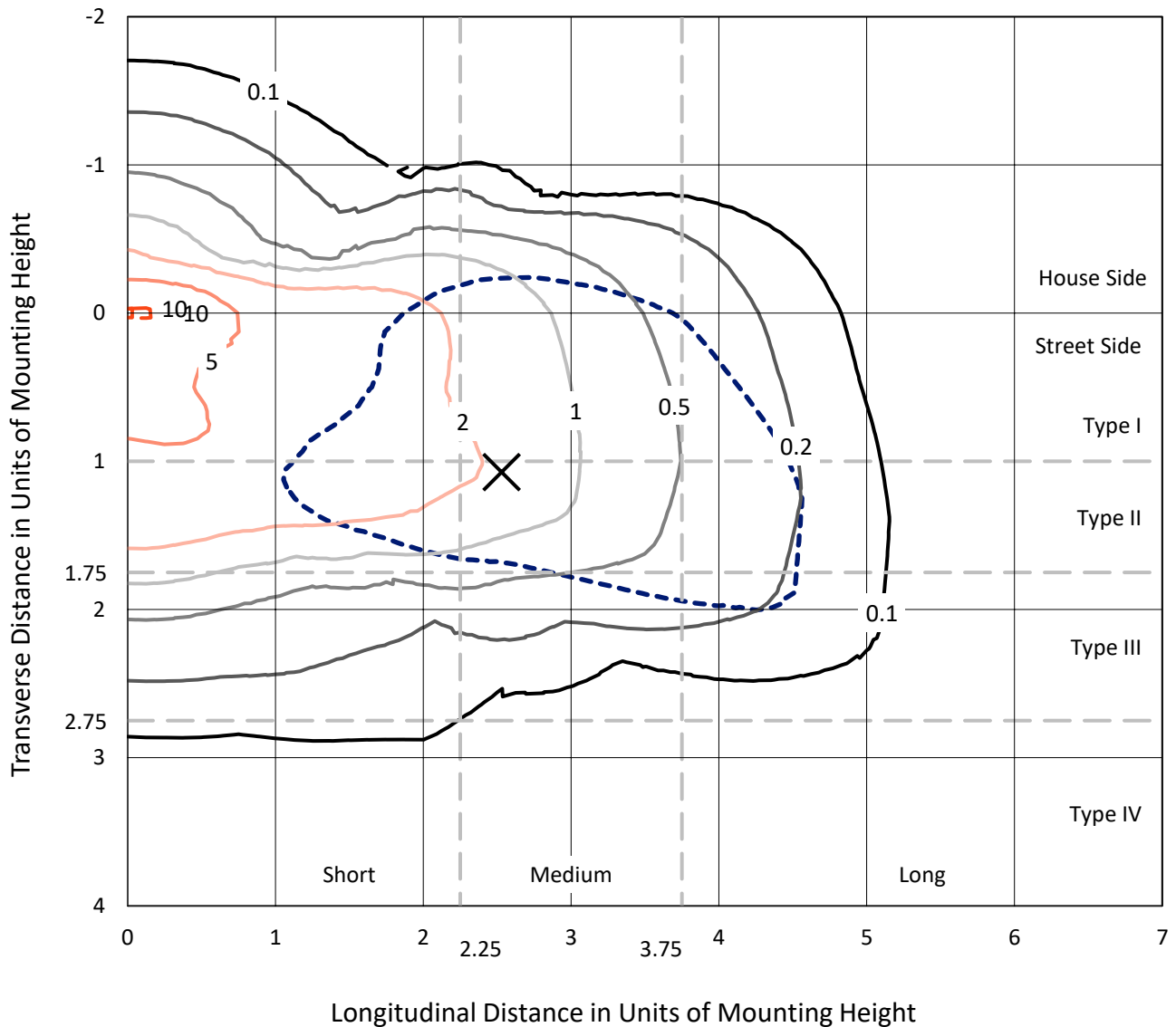
Lumens per Lamp: N/A
Luminaire Lumens: 28403.3 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

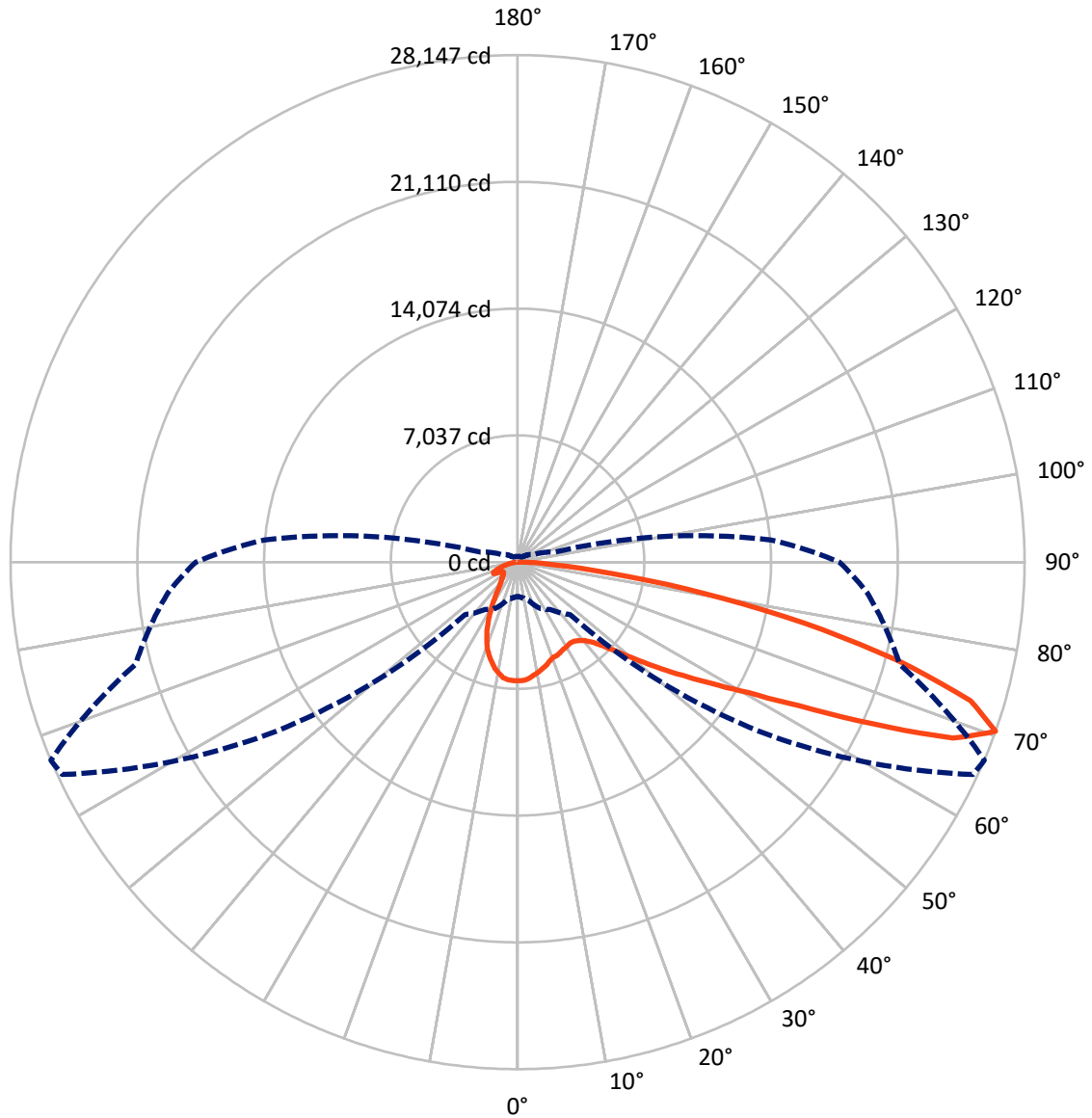
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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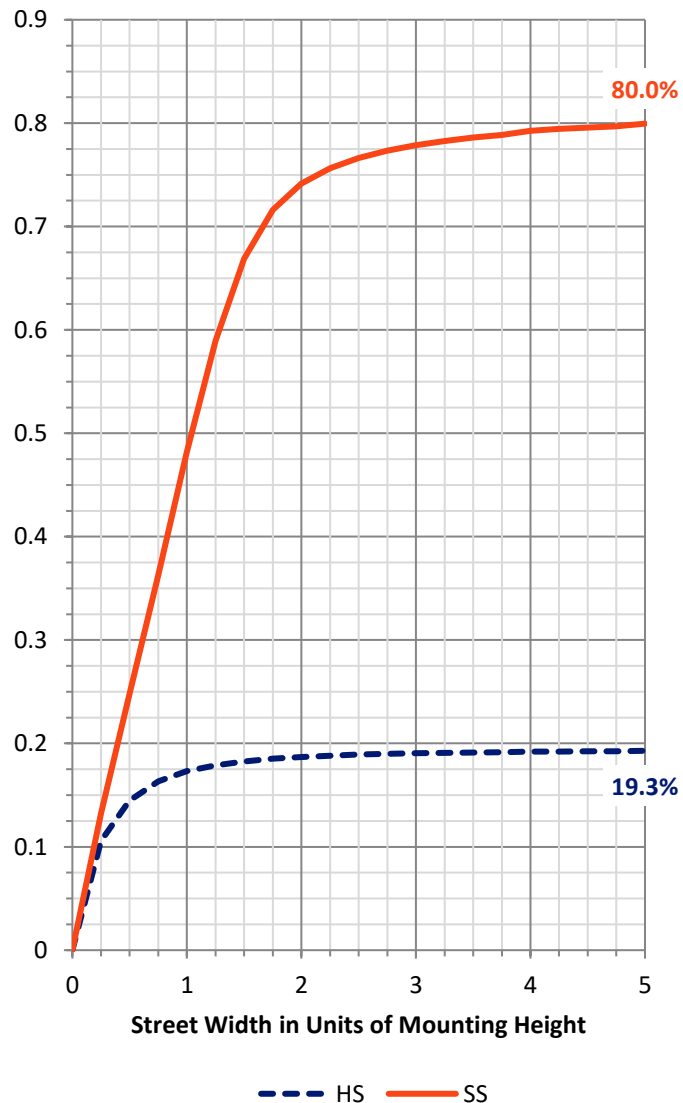
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5531.8	0.0	5531.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	22871.5	0.0	22871.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	28403.3	0.0	28403.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.7	2.0
10°-20°	1374.0	4.8
20°-30°	1855.5	6.5
30°-40°	2482.8	8.7
40°-50°	3650.9	12.9
50°-60°	5690.9	20.0
60°-70°	7010.2	24.7
70°-80°	4953.4	17.4
80°-90°	811.9	2.9
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°	28403.3	100.0
0°-180°	28403.3	100.0

Coefficient of Utilization



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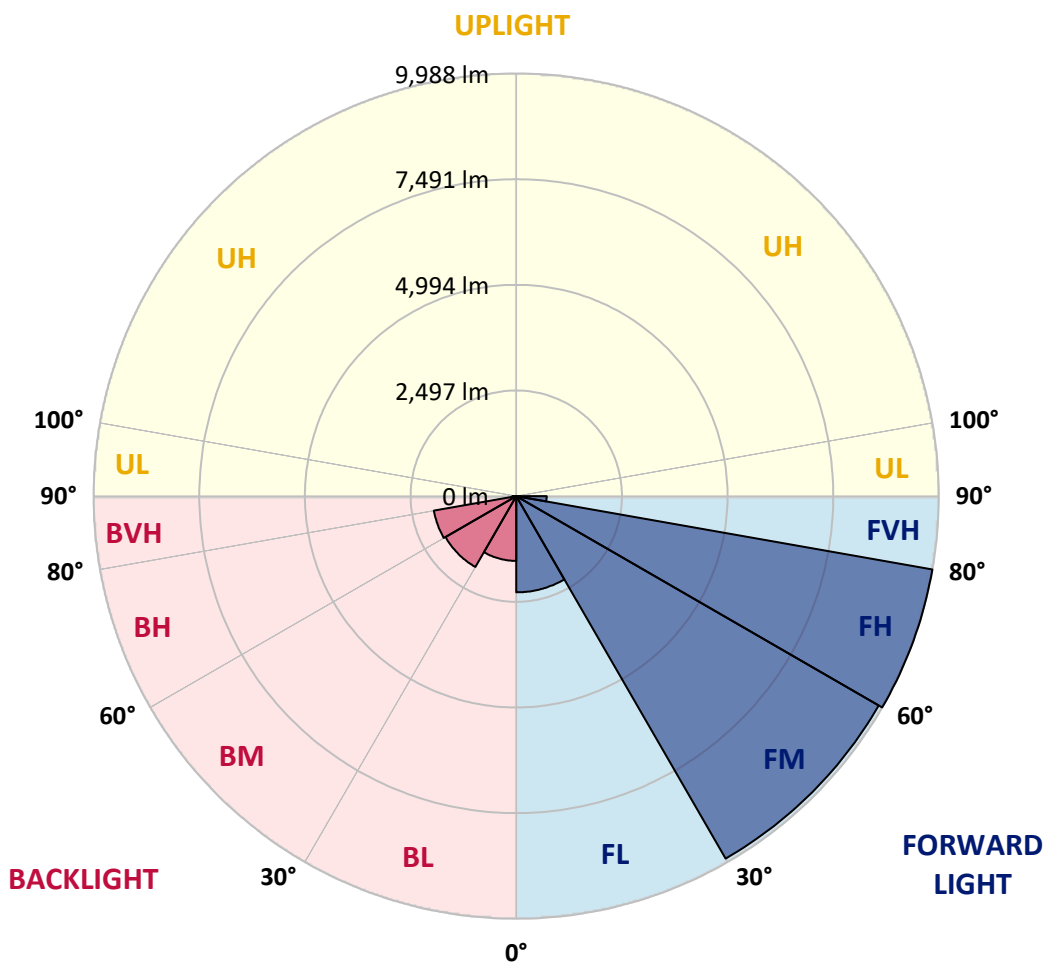
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2273.5	8.0			
FM (30°-60°)	9892.3	34.8			
FH (60°-80°)	9987.6	35.2			G4/12000
FVH (80°-90°)	718.2	2.5			G4/750
BL (0°-30°)	1529.7	5.4	B3/2500		
BM (30°-60°)	1932.4	6.8	B2/2500		
BH (60°-80°)	1976.0	7.0	B3/2500		G3/2500
BVH (80°-90°)	93.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3
2.5°	6122.5	6191.6	6216.8	6254.5	6352.0	6424.3	6468.4	6518.7	6578.4	6628.7	6660.2
5°	5694.8	5732.5	5792.3	5833.2	5955.8	6150.8	6282.8	6496.7	6490.4	6569.0	6688.5
7.5°	5279.7	5317.5	5345.8	5427.5	5603.6	5779.7	6021.8	6367.7	6342.6	6525.0	6710.5
10°	5021.9	4993.6	5003.0	5141.4	5279.7	5477.8	5782.9	6135.0	6226.2	6509.2	6773.4
12.5°	4779.7	4748.3	4823.8	4911.8	5081.6	5260.9	5625.6	5943.2	6081.6	6452.6	6801.7
15°	4628.8	4606.8	4701.1	4738.9	4940.1	5153.9	5411.8	5798.6	5949.5	6383.5	6757.7
17.5°	4543.9	4562.8	4597.4	4679.1	4808.0	4990.4	5273.4	5701.1	5767.1	6298.6	6748.2
20°	4559.6	4581.6	4584.8	4619.4	4707.4	4848.9	5138.2	5597.3	5641.3	6282.8	6773.4
22.5°	4685.4	4654.0	4666.5	4644.5	4669.7	4779.7	5034.4	5459.0	5628.8	6150.8	6719.9
25°	4874.1	4830.0	4823.8	4748.3	4701.1	4732.6	5015.6	5424.4	5534.4	6109.9	6716.8
27.5°	5207.4	5141.4	5141.4	5028.2	4836.3	4786.0	4962.1	5367.8	5465.3	6072.2	6644.5
30°	5528.1	5528.1	5531.3	5370.9	5157.1	4908.7	4984.1	5345.8	5408.6	5958.9	6547.0
32.5°	5918.1	5908.6	5892.9	5814.3	5484.1	5113.1	5091.0	5317.5	5348.9	5921.2	6518.7
35°	6298.6	6273.4	6396.0	6326.9	5990.4	5512.4	5201.1	5330.0	5399.2	5864.6	6430.6
37.5°	6584.7	6600.4	6855.1	6899.2	6609.9	5965.2	5512.4	5455.8	5521.9	5946.4	6430.6
40°	6955.8	7018.7	7257.7	7405.4	7229.4	6562.7	6006.1	5666.5	5713.7	6128.8	6569.0
42.5°	7443.2	7496.6	7801.7	7993.5	7943.2	7323.7	6493.5	6106.7	6069.0	6433.8	6776.5
45°	8087.8	8097.2	8405.4	8669.6	8773.3	8119.3	7267.1	6663.3	6631.9	6958.9	7157.0
47.5°	8855.1	8845.7	9037.5	9320.5	9600.4	9068.9	8157.0	7509.2	7396.0	7710.5	7789.1
50°	9597.2	9556.3	9600.4	9962.0	10499.7	10257.6	9238.7	8543.8	8430.6	8603.5	8738.7
52.5°	10006.0	10056.3	9936.8	10414.8	11455.6	11663.2	10672.6	9779.6	9682.1	9767.0	10002.9
55°	9719.8	9823.6	9745.0	10197.8	11873.9	13377.0	12527.9	11210.4	11084.6	11053.1	11439.9
57.5°	8502.9	8691.6	8707.3	9424.3	11729.2	14704.0	15137.9	12899.0	12710.3	12389.6	12788.9
60°	6528.1	6716.8	6861.4	7710.5	10490.3	15496.4	18163.0	15301.4	14678.8	13848.7	14087.6
62.5°	4575.3	4704.3	4848.9	5370.9	8087.8	15031.0	20779.3	18685.0	17537.2	15386.3	15685.1
65°	3333.2	3433.9	3581.7	3889.8	4968.4	12436.7	21993.1	22703.7	21615.7	17342.3	17304.5
67.5°	2509.4	2572.3	2767.2	3260.9	3443.3	7682.2	20735.2	26948.9	26068.4	19515.2	18606.4
70°	1899.3	1952.8	2135.2	2811.2	3216.9	4119.4	16358.0	27895.4	28147.0	21952.2	19480.6
72.5°	1308.1	1367.9	1572.3	2342.7	3062.8	3267.2	10267.0	25342.0	26294.8	22955.3	18543.5
75°	801.9	842.7	962.2	1776.7	3040.8	3194.9	5650.8	20766.7	21776.1	21210.1	16222.8
77.5°	566.0	562.9	584.9	1040.9	2635.1	3213.7	3484.2	15216.5	16197.6	15631.6	11009.1
80°	411.9	415.1	437.1	622.6	1789.3	3267.2	2745.2	10191.5	10484.0	8150.7	4342.6
82.5°	248.4	261.0	314.5	421.4	1075.4	2949.6	2537.7	5663.4	5298.6	2616.3	1194.9
85°	132.1	132.1	185.5	267.3	572.3	2201.2	2443.3	2694.9	2257.8	811.3	443.4
87.5°	31.4	31.4	53.5	106.9	229.6	1053.4	1666.6	1072.3	858.5	273.6	182.4
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°	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3	6575.3
2.5°	6647.6	6609.9	6657.0	6562.7	6487.2	6490.4	6374.0	6367.7	6352.0	6270.3	6298.6
5°	6723.1	6691.6	6638.2	6534.4	6367.7	6201.1	6100.5	5971.5	5918.1	5889.8	5902.3
7.5°	6795.4	6738.8	6584.7	6440.1	6182.2	5867.8	5685.4	5512.4	5292.3	5267.1	5223.1
10°	6814.3	6694.8	6496.7	6188.5	5845.7	5496.7	5081.6	4760.9	4591.1	4459.0	4408.7
12.5°	6786.0	6735.7	6355.2	5958.9	5440.1	4892.9	4408.7	3955.9	3641.4	3477.9	3433.9
15°	6782.8	6694.8	6197.9	5609.9	4946.4	4232.6	3543.9	2999.9	2669.7	2534.5	2534.5
17.5°	6786.0	6575.3	6012.4	5257.7	4364.7	3399.3	2641.4	2194.9	2012.5	1993.7	2009.4
20°	6723.1	6487.2	5817.4	4842.6	3635.1	2553.4	1918.2	1735.8	1735.8	1761.0	1770.4
22.5°	6666.5	6355.2	5509.3	4330.1	2893.0	1849.0	1559.7	1506.2	1566.0	1610.0	1628.9
25°	6587.9	6245.1	5194.8	3798.6	2201.2	1490.5	1355.3	1367.9	1424.5	1503.1	1496.8
27.5°	6474.7	6053.3	4820.6	3182.3	1638.3	1286.1	1251.5	1257.8	1317.6	1352.2	1345.9
30°	6345.7	5858.3	4474.7	2569.1	1298.7	1179.2	1176.1	1191.8	1201.2	1220.1	1216.9
32.5°	6182.2	5600.5	4106.8	1996.8	1169.8	1119.5	1106.9	1097.5	1106.9	1103.7	1094.3
35°	6065.9	5462.1	3732.6	1522.0	1097.5	1066.0	1056.6	1040.9	1028.3	1009.4	1006.3
37.5°	6034.4	5323.7	3339.5	1242.1	1040.9	1025.1	993.7	965.4	949.7	940.2	933.9
40°	6015.5	5232.6	2955.9	1091.2	993.7	978.0	940.2	902.5	886.8	877.3	880.5
42.5°	6081.6	5182.2	2566.0	1015.7	952.8	924.5	883.6	839.6	836.5	830.2	839.6
45°	6314.3	5245.1	2204.3	962.2	911.9	864.8	811.3	789.3	786.1	779.9	786.1
47.5°	6842.6	5402.4	1896.2	927.6	867.9	827.0	770.4	739.0	735.8	732.7	732.7
50°	7572.1	5886.6	1638.3	886.8	839.6	783.0	729.5	694.9	688.7	676.1	676.1
52.5°	8716.7	6701.1	1484.2	864.8	789.3	742.1	685.5	647.8	632.1	619.5	619.5
55°	10006.0	7710.5	1455.9	827.0	735.8	691.8	641.5	603.8	588.0	572.3	566.0
57.5°	11474.5	9046.9	1657.2	801.9	698.1	641.5	584.9	550.3	537.7	522.0	515.7
60°	12842.4	10380.2	2283.0	764.1	663.5	594.3	537.7	503.1	487.4	471.7	471.7
62.5°	14424.1	12031.1	3342.7	764.1	632.1	544.0	487.4	462.3	452.8	437.1	433.9
65°	16295.1	13738.6	4116.2	811.3	622.6	500.0	440.2	415.1	405.6	396.2	393.1
67.5°	17719.6	14719.7	3540.8	937.1	663.5	462.3	393.1	377.3	371.1	361.6	355.3
70°	17870.6	14122.2	2135.2	1012.5	704.4	424.5	352.2	336.5	336.5	327.0	320.7
72.5°	16515.2	12531.1	1437.1	902.5	638.3	380.5	311.3	298.7	292.4	286.2	283.0
75°	13820.4	10628.6	1135.2	720.1	490.6	314.5	270.4	257.9	248.4	245.3	239.0
77.5°	9282.7	6908.6	839.6	562.9	361.6	254.7	226.4	213.8	204.4	201.3	191.8
80°	3565.9	2632.0	540.9	408.8	254.7	201.3	179.2	166.7	160.4	150.9	144.6
82.5°	1050.3	852.2	301.9	251.6	163.5	138.4	128.9	119.5	110.1	100.6	97.5
85°	433.9	389.9	185.5	132.1	100.6	81.8	75.5	66.0	56.6	50.3	44.0
87.5°	201.3	166.7	84.9	50.3	34.6	18.9	9.4	3.1	0.0	0.0	0.0
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)