

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: P483283

Luminaire Tested: **IFLD-S-SA6D-750-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483283
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-750-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

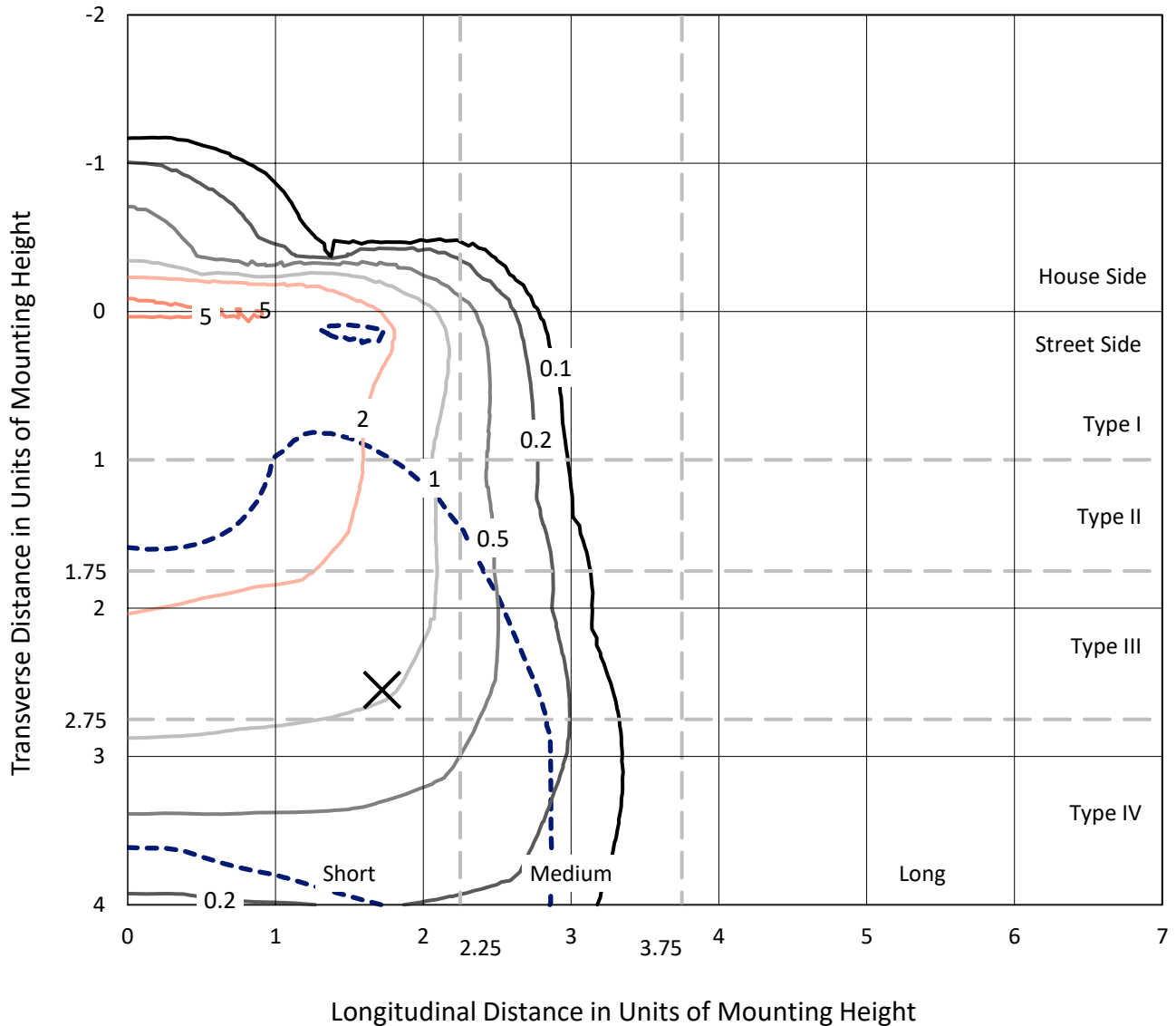
Lumens per Lamp: N/A
Luminaire Lumens: 33818 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

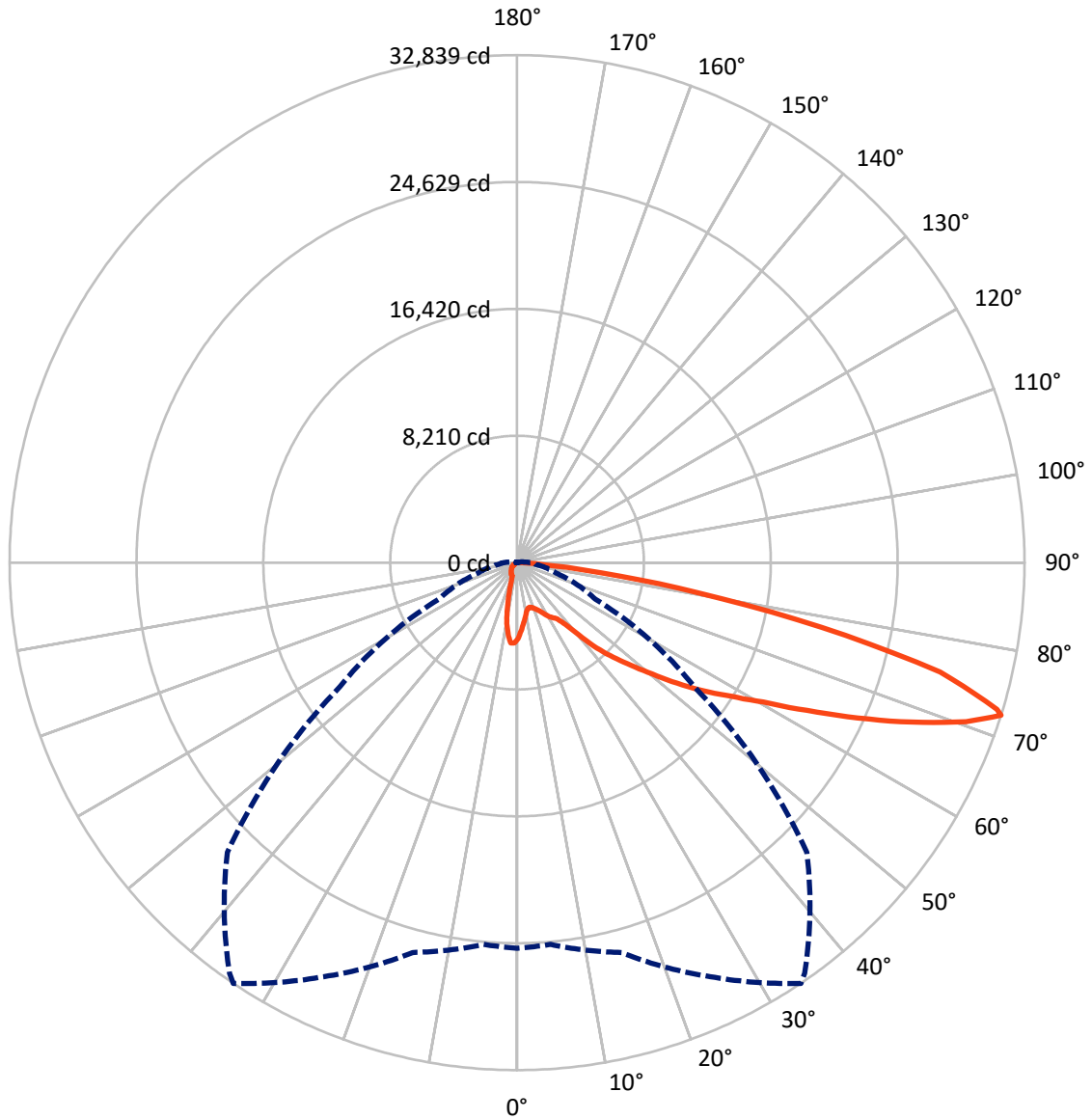
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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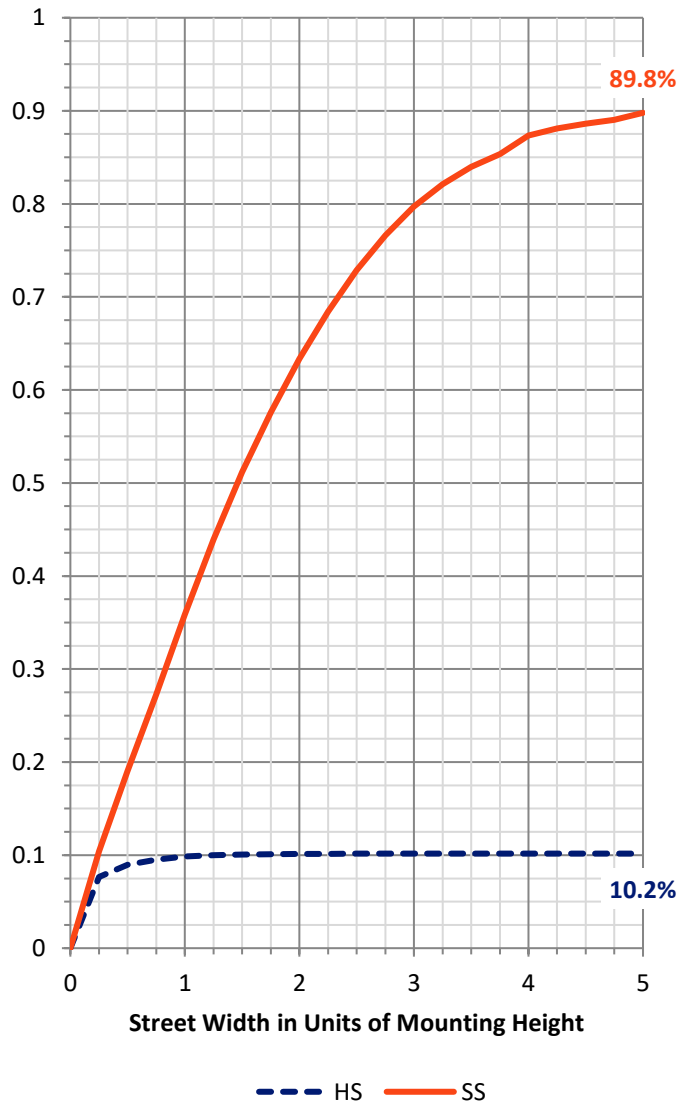
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3462.2	0.0	3462.2
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	30355.8	0.0	30355.8
	% Fixture	89.8	0.0	89.8
Total	Lumens	33818.0	0.0	33818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	1.3
10°-20°	972.4	2.9
20°-30°	1467.7	4.3
30°-40°	2381.8	7.0
40°-50°	4478.8	13.2
50°-60°	7322.9	21.7
60°-70°	9734.8	28.8
70°-80°	6519.3	19.3
80°-90°	510.9	1.5
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°	33818.0	100.0
0°-180°	33818.0	100.0

Coefficient of Utilization



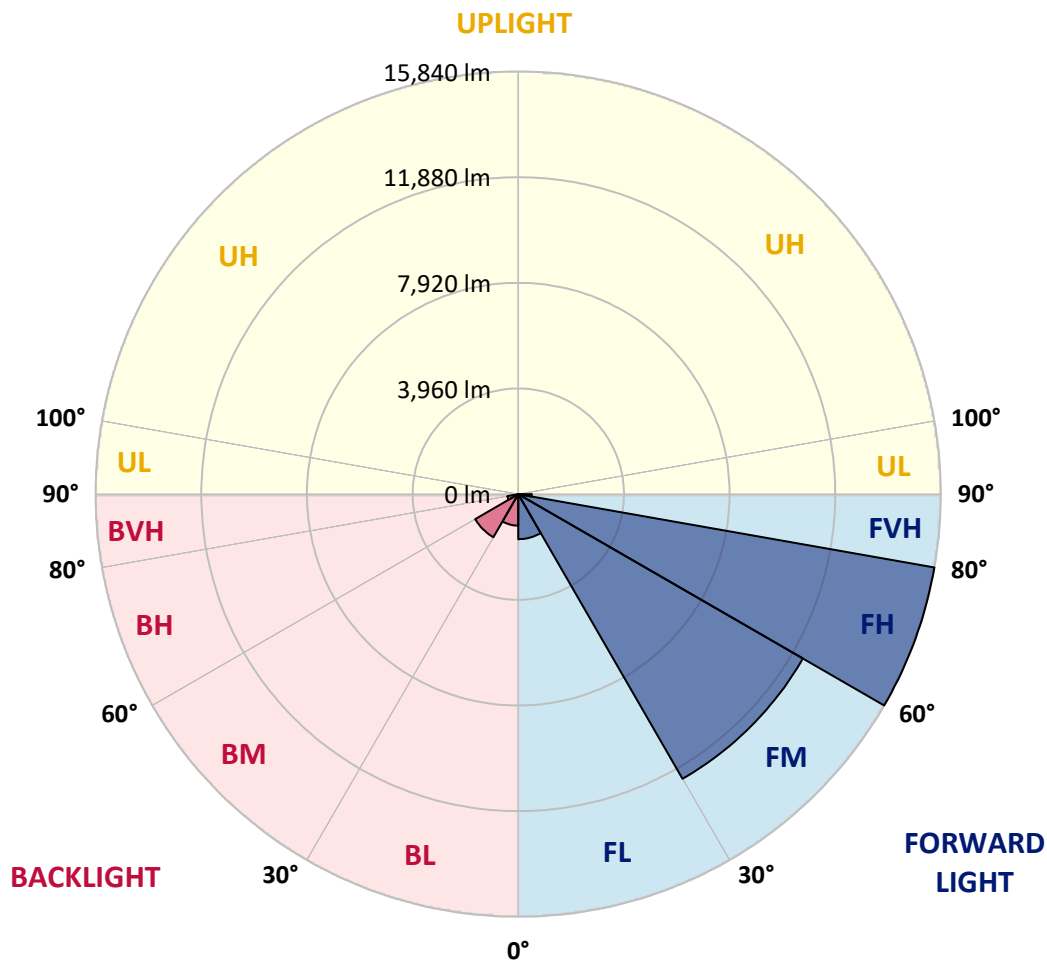
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.3	5.0			
FM (30°-60°)	12319.8	36.4			
FH (60°-80°)	15840.1	46.8			G5
FVH (80°-90°)	507.7	1.5			G4/750
BL (0°-30°)	1181.3	3.5	B3/2500		
BM (30°-60°)	1863.6	5.5	B2/2500		
BH (60°-80°)	414.0	1.2	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
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°	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6
2.5°	4375.6	4365.8	4395.1	4444.0	4492.9	4473.4	4566.3	4664.0	4732.5	4825.4	4937.8
5°	3823.1	3847.6	3876.9	3974.7	4038.3	4052.9	4224.0	4351.1	4561.4	4776.5	4976.9
7.5°	3319.6	3348.9	3407.6	3515.1	3647.1	3681.4	3852.5	4106.7	4380.5	4664.0	4991.6
10°	2952.9	2982.2	3045.8	3114.2	3290.3	3290.3	3524.9	3876.9	4233.8	4566.3	4996.5
12.5°	2874.7	2889.4	2884.5	2938.2	3050.7	3075.1	3304.9	3691.1	4106.7	4532.0	5074.7
15°	2967.6	2977.4	2928.5	2899.1	2996.9	3021.4	3236.5	3578.7	4023.6	4551.6	5201.8
17.5°	3153.4	3119.1	3021.4	2977.4	3060.5	3075.1	3275.6	3573.8	4013.8	4605.4	5348.5
20°	3260.9	3300.0	3128.9	3045.8	3163.1	3182.7	3397.8	3652.0	4062.7	4698.3	5553.8
22.5°	3451.6	3471.1	3241.4	3187.6	3300.0	3300.0	3544.5	3808.5	4180.0	4849.8	5798.3
25°	3720.5	3696.0	3427.1	3373.4	3480.9	3524.9	3769.4	4057.8	4360.9	4991.6	6023.2
27.5°	3930.7	3945.4	3725.4	3583.6	3764.5	3793.8	4057.8	4326.7	4497.8	5108.9	6296.9
30°	4243.6	4214.3	3979.6	3818.3	4043.1	4048.0	4302.3	4580.9	4761.8	5319.2	6707.6
32.5°	4615.2	4556.5	4287.6	4057.8	4238.7	4282.7	4541.8	4947.6	5172.5	5715.2	7343.2
35°	5402.3	5260.5	4820.5	4463.6	4478.3	4497.8	4898.7	5480.5	5739.6	6218.7	8193.8
37.5°	6551.2	6492.5	5993.8	5314.3	5055.2	4996.5	5446.3	6184.5	6507.2	6883.6	9298.7
40°	7690.3	7607.2	7142.7	6629.4	6160.1	6042.7	6267.6	7118.3	7411.6	7807.6	10433.0
42.5°	8956.5	8809.9	8262.3	7846.7	7553.4	7426.3	7338.3	8291.6	8624.1	8893.0	11542.8
45°	10237.4	9997.9	9205.9	8888.1	8731.6	8663.2	8653.4	9768.1	9968.5	10022.3	12774.8
47.5°	11361.9	11102.8	10384.1	10027.2	9909.9	9890.3	10437.9	11469.4	11313.0	11171.2	14148.6
50°	12227.2	12061.0	11542.8	11415.7	11327.7	11293.4	12574.3	13219.7	12496.1	12246.8	15356.1
52.5°	13566.8	13195.2	12608.6	12652.6	12960.6	12965.4	14740.1	14881.9	13478.8	12985.0	16495.3
55°	14637.5	14393.0	13913.9	13850.3	14661.9	14749.9	16681.0	16143.3	14026.3	13689.0	16915.7
57.5°	15898.8	15786.4	15439.2	15449.0	16299.7	16485.5	18406.8	17209.0	14481.0	14143.7	16979.3
60°	17722.4	17399.7	17218.8	17301.9	18304.2	18485.0	20078.8	17976.6	14701.0	14441.9	16822.8
62.5°	19736.6	19360.2	19164.6	19589.9	21051.7	21081.1	21350.0	18656.2	14564.1	14520.1	15815.7
65°	22161.5	21790.0	21633.5	22489.1	24224.7	24117.1	23134.4	18944.6	14129.0	13733.0	13170.8
67.5°	24576.7	24351.8	24029.1	25393.1	27554.0	27554.0	24987.3	18837.1	12989.9	11024.5	8614.3
70°	25720.7	25877.1	26390.5	28531.8	30824.7	30590.0	26815.8	17600.2	9670.3	5920.5	3388.0
72°	24958.0	24796.7	26121.6	29558.5	32839.0	32452.7	26507.8	13992.1	5588.0	2596.0	1178.2
72.5°	23647.8	23799.3	25622.9	29416.7	32462.5	32780.3	25754.9	12906.8	4595.6	2068.0	889.8
75°	14500.6	14759.7	19125.5	24977.6	28287.4	27930.5	19922.4	6150.3	1764.9	880.0	317.8
77.5°	5294.7	5509.8	9279.2	15717.9	20118.0	19893.1	11528.1	2185.4	958.2	655.1	161.3
80°	1378.7	1491.1	3153.4	7250.3	11831.2	11845.9	4825.4	875.1	650.2	537.8	97.8
82.5°	273.8	303.1	968.0	2820.9	5529.4	5456.0	1525.3	469.3	488.9	440.0	68.4
85°	34.2	44.0	205.3	958.2	1789.3	1603.6	376.4	234.7	361.8	342.2	44.0
87.5°	4.9	4.9	48.9	220.0	376.4	366.7	78.2	73.3	161.3	210.2	24.4
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°	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6	4947.6
2.5°	5001.4	5020.9	5089.4	5148.0	5216.5	5236.0	5206.7	5255.6	5187.2	5226.3	5236.0
5°	5011.2	5123.6	5250.7	5333.8	5314.3	5265.4	5226.3	5094.3	5001.4	4967.2	5040.5
7.5°	5079.6	5206.7	5343.6	5343.6	5236.0	4981.8	4737.4	4502.7	4307.1	4209.4	4292.5
10°	5167.6	5299.6	5441.4	5255.6	4854.7	4390.3	4043.1	3603.1	3304.9	3148.5	3163.1
12.5°	5284.9	5470.7	5519.6	5089.4	4424.5	3735.1	3104.5	2493.4	2209.8	1984.9	1989.8
15°	5436.5	5617.4	5470.7	4727.6	3876.9	2860.0	2102.2	1520.5	1295.6	1178.2	1178.2
17.5°	5636.9	5773.8	5456.0	4395.1	3138.7	1955.6	1290.7	1026.7	977.8	958.2	958.2
20°	5871.6	5974.3	5314.3	3876.9	2332.0	1256.5	948.5	919.1	924.0	914.2	914.2
22.5°	6135.6	6169.8	5152.9	3275.6	1579.1	928.9	884.9	889.8	894.7	884.9	889.8
25°	6414.3	6321.4	4918.3	2571.6	1051.1	845.8	855.6	865.3	870.2	875.1	875.1
27.5°	6727.2	6541.4	4590.7	1882.2	821.3	796.9	826.2	855.6	860.5	860.5	855.6
30°	7186.7	6878.7	4272.9	1276.0	723.6	743.1	792.0	826.2	850.7	850.7	845.8
32.5°	7768.5	7230.7	3828.0	870.2	669.8	679.6	718.7	787.1	840.9	845.8	831.1
35°	8575.2	7656.1	3363.6	694.2	630.7	635.6	660.0	713.8	806.7	836.0	831.1
37.5°	9425.9	8140.1	2786.7	625.8	601.3	596.4	611.1	655.1	738.2	811.6	816.5
40°	10330.3	8648.5	2180.5	591.6	576.9	567.1	572.0	591.6	655.1	748.0	767.6
42.5°	11181.0	9108.1	1637.8	557.3	552.4	542.7	542.7	547.6	581.8	645.3	655.1
45°	12100.1	9484.5	1246.7	532.9	518.2	523.1	503.6	493.8	518.2	523.1	518.2
47.5°	12960.6	9861.0	997.3	503.6	488.9	488.9	464.4	444.9	444.9	400.9	396.0
50°	13767.2	10066.3	796.9	464.4	459.6	454.7	420.4	386.2	356.9	303.1	293.3
52.5°	14437.0	10056.5	616.0	415.6	430.2	415.6	361.8	312.9	268.9	220.0	210.2
55°	14637.5	9587.2	464.4	342.2	366.7	347.1	288.4	244.4	195.6	156.4	151.6
57.5°	14466.3	8873.4	352.0	264.0	283.6	264.0	220.0	180.9	136.9	107.6	97.8
60°	13894.3	8037.4	273.8	205.3	215.1	200.4	166.2	136.9	97.8	68.4	58.7
62.5°	12809.0	6991.2	210.2	161.3	156.4	156.4	127.1	102.7	68.4	39.1	34.2
65°	10511.2	5451.2	161.3	112.4	112.4	112.4	97.8	73.3	44.0	19.6	9.8
67.5°	6600.1	3172.9	132.0	88.0	83.1	83.1	68.4	48.9	24.4	4.9	0.0
70°	2483.6	1163.6	102.7	68.4	63.6	63.6	48.9	29.3	14.7	0.0	0.0
72°	855.6	444.9	83.1	48.9	48.9	44.0	34.2	24.4	9.8	0.0	0.0
72.5°	704.0	356.9	78.2	48.9	44.0	44.0	34.2	24.4	9.8	0.0	0.0
75°	254.2	146.7	53.8	34.2	29.3	29.3	24.4	14.7	4.9	0.0	0.0
77.5°	127.1	92.9	44.0	29.3	24.4	14.7	14.7	9.8	4.9	0.0	0.0
80°	78.2	58.7	24.4	19.6	14.7	9.8	4.9	4.9	0.0	0.0	0.0
82.5°	53.8	34.2	14.7	14.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0
85°	34.2	14.7	9.8	9.8	4.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.7	9.8	4.9	0.0	0.0	0.0	0.0	0.0	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)