

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: P478096

Luminaire Tested: **IFLD-S-SA6D-730-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478096
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-730-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

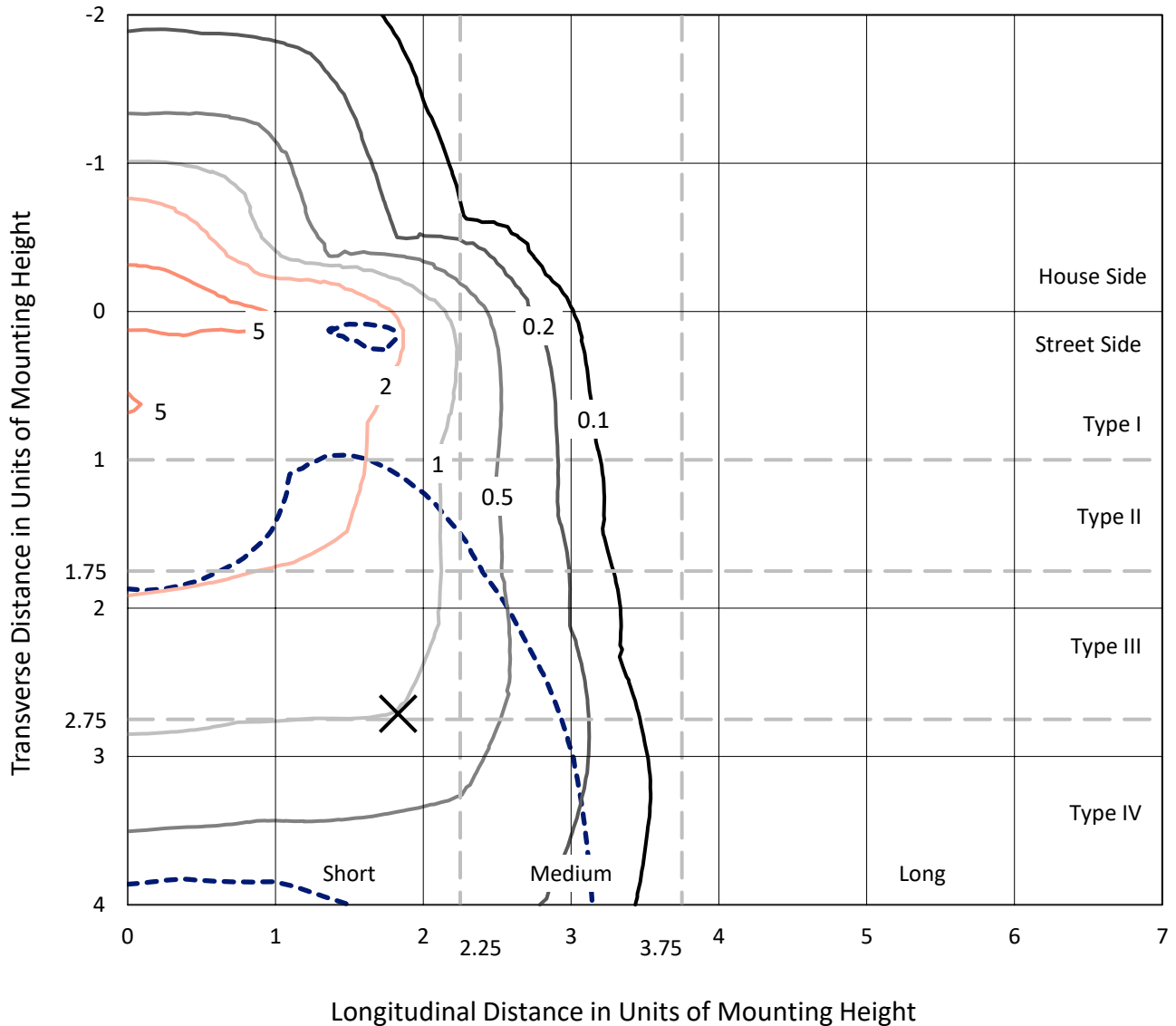
Lumens per Lamp: N/A
Luminaire Lumens: 42654 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

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

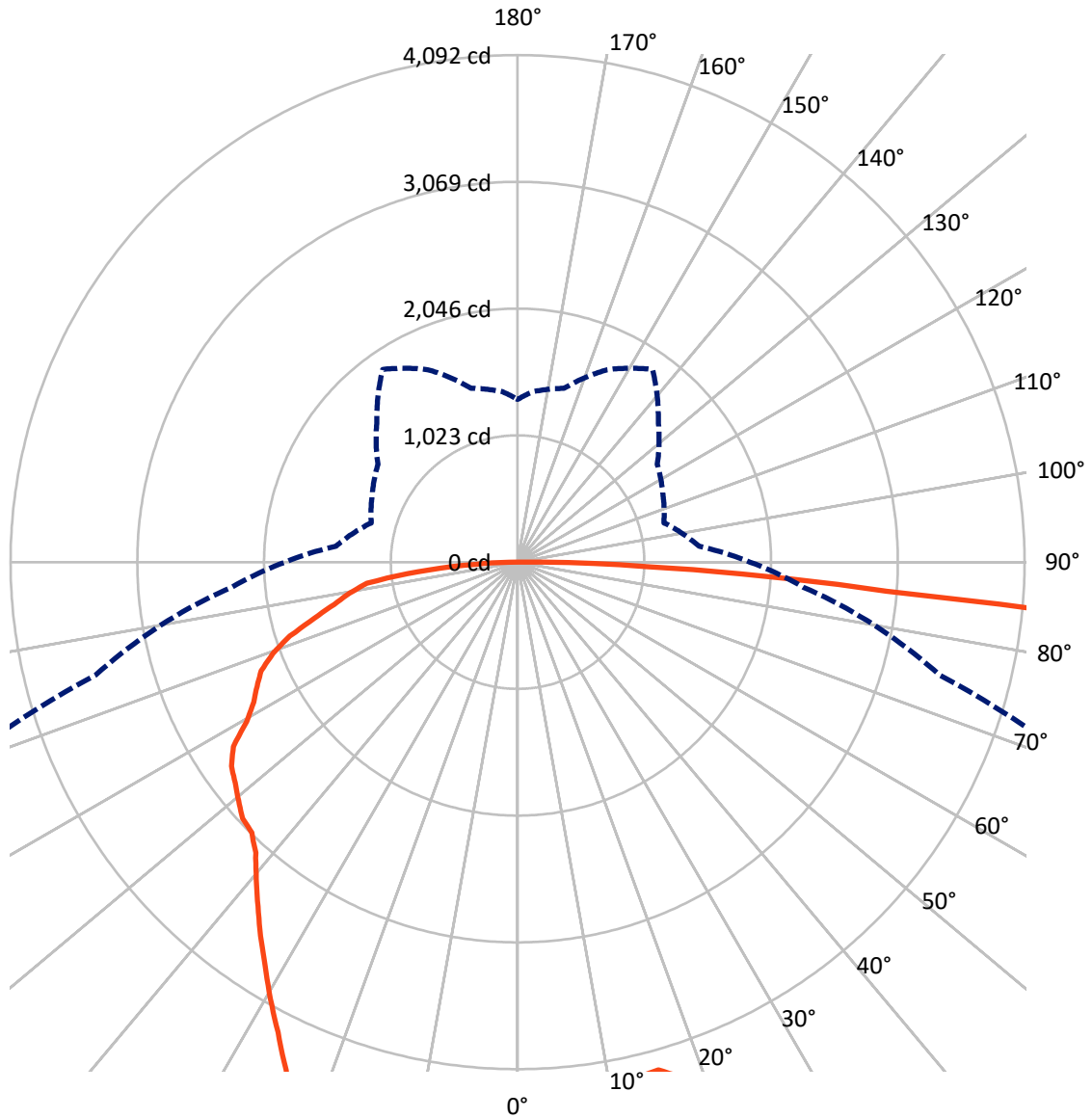
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.1 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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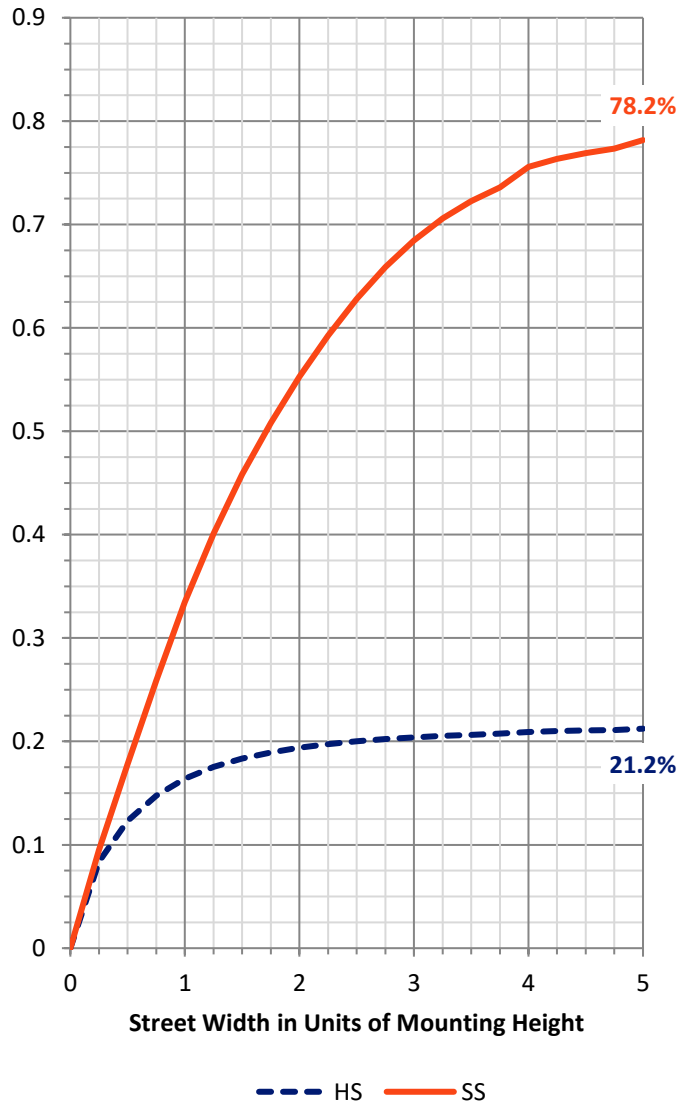
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9213.8	0.0	9213.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	33440.2	0.0	33440.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	42654.0	0.0	42654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	564.4	1.3
10°-20°	1579.5	3.7
20°-30°	2599.6	6.1
30°-40°	3887.7	9.1
40°-50°	5763.4	13.5
50°-60°	8305.7	19.5
60°-70°	10599.2	24.8
70°-80°	8247.9	19.3
80°-90°	1106.5	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°	42654.0	100.0
0°-180°	42654.0	100.0

Coefficient of Utilization



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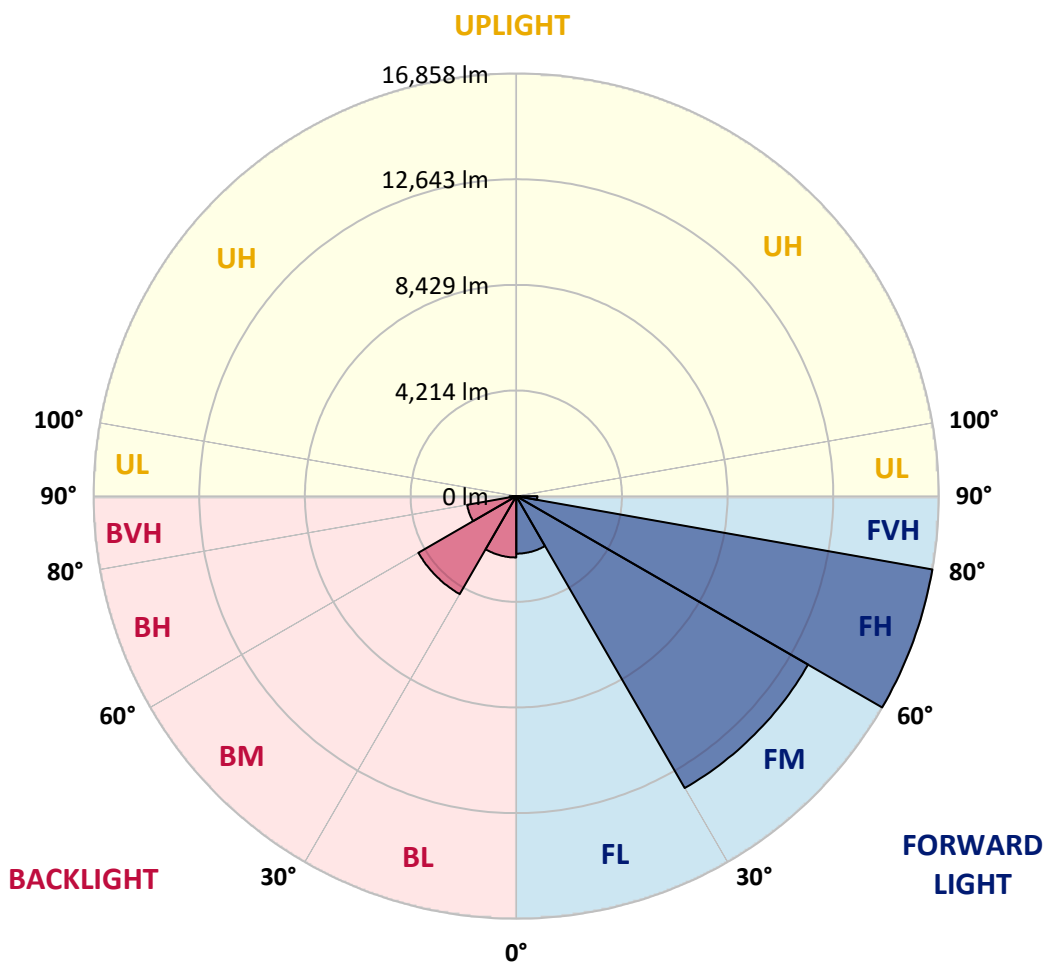
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2295.5	5.4			
FM (30°-60°)	13444.8	31.5			
FH (60°-80°)	16857.6	39.5			G5
FVH (80°-90°)	842.2	2.0			G5
BL (0°-30°)	2448.0	5.7	B3/2500		
BM (30°-60°)	4512.0	10.6	B3/5000		
BH (60°-80°)	1989.5	4.7	B3/2500		G3/2500
BVH (80°-90°)	264.3	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°	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1
2.5°	5479.3	5497.3	5555.9	5569.4	5632.6	5596.5	5673.2	5808.5	5885.1	5997.9	6133.2
5°	5046.3	4969.7	5005.7	5145.5	5217.7	5235.7	5316.9	5546.9	5691.2	5858.1	6110.6
7.5°	4536.7	4523.2	4595.4	4685.6	4829.9	4843.4	5023.8	5226.7	5524.4	5894.1	6191.8
10°	4189.5	4248.1	4288.7	4383.4	4482.6	4482.6	4712.6	5064.4	5402.6	5758.9	6209.8
12.5°	4171.4	4135.4	4144.4	4194.0	4266.2	4356.3	4572.8	4888.5	5316.9	5731.8	6286.5
15°	4230.1	4243.6	4162.4	4225.6	4252.6	4284.2	4523.2	4879.5	5262.8	5826.5	6417.3
17.5°	4541.2	4464.6	4338.3	4279.7	4374.4	4374.4	4536.7	4816.3	5271.8	5876.1	6606.7
20°	4784.8	4784.8	4577.3	4514.2	4581.8	4568.3	4681.0	4888.5	5316.9	5975.3	6818.6
22.5°	5195.1	5253.8	4911.0	4780.3	4775.7	4811.8	4911.0	5086.9	5443.2	6115.1	7021.6
25°	5785.9	5799.4	5402.6	5267.3	5123.0	5181.6	5199.7	5375.5	5555.9	6277.5	7251.6
27.5°	6444.3	6435.3	6070.0	5731.8	5637.1	5650.6	5551.4	5668.7	5722.8	6327.1	7580.8
30°	7174.9	7093.7	6818.6	6340.6	6263.9	6178.3	5961.8	5957.3	6070.0	6606.7	8036.2
32.5°	7652.9	7549.2	7359.8	7017.1	6805.1	6814.1	6471.4	6466.9	6367.7	6913.3	8433.1
35°	8121.9	7964.1	7914.5	7562.7	7350.8	7373.3	7098.2	7062.2	6881.8	7377.8	9087.0
37.5°	8685.6	8545.8	8622.5	8356.4	8094.9	7986.6	7860.4	7815.3	7580.8	8031.7	9979.9
40°	9308.0	9262.9	9213.3	9082.5	8924.6	8933.7	8798.4	8753.3	8406.0	8820.9	10836.7
42.5°	10146.8	9975.4	9718.3	9804.0	9885.2	9970.9	9925.8	9808.5	9447.8	9623.6	11792.8
45°	10926.9	10701.5	10227.9	10255.0	10588.7	10656.4	11202.0	11188.5	10462.4	10642.8	12879.6
47.5°	11454.6	11350.9	11066.7	11035.2	11513.2	11508.7	12491.8	12491.8	11531.2	11657.5	14047.6
50°	12239.3	11968.7	11846.9	12004.8	12248.3	12415.1	13808.6	13894.3	12582.0	12717.3	15576.4
52.5°	13159.2	12821.0	12514.3	12920.2	13353.1	13461.4	15111.9	15075.8	13389.2	13948.4	17366.8
55°	13921.4	13750.0	13538.0	13772.5	14480.6	14615.9	16419.7	16086.0	14196.5	14967.6	18228.1
57.5°	14809.8	14913.5	14958.6	14900.0	15743.3	15955.2	17912.4	16956.4	14890.9	15653.1	18733.2
60°	16149.1	16212.3	16270.9	16410.7	17303.6	17601.3	19094.0	18047.7	15328.4	16049.9	18773.8
62.5°	18187.5	17944.0	18074.8	18557.3	19274.3	19612.6	20834.7	18814.4	15662.1	16288.9	17447.9
65°	20519.0	20189.8	20054.5	20676.9	22534.8	22264.3	23008.4	19387.1	15179.6	15396.0	14796.2
67.5°	22882.1	22918.2	22570.9	23820.1	26097.5	26097.5	25028.7	19662.2	13871.8	12478.3	10376.8
70°	24758.1	24870.9	25060.3	27482.0	31089.7	31635.4	27531.6	18534.8	11206.5	8306.8	5673.2
72.5°	24731.1	24392.8	25362.4	29822.5	35626.4	35171.0	28054.7	14656.4	6994.5	4067.7	2602.1
73°	24176.4	23892.3	24952.0	29799.9	35811.3	35382.9	27671.4	13511.0	6169.2	3526.6	2313.5
75°	19743.4	19229.3	21033.1	26990.4	33132.6	33461.8	23508.9	8811.9	3382.3	2173.7	1628.0
77.5°	9001.3	9226.8	11576.3	18106.3	25533.8	25921.6	15454.7	3810.7	1853.5	1524.3	1199.6
80°	2890.7	3035.0	4505.2	9001.3	16004.8	16703.8	7143.3	1731.7	1321.3	1168.0	897.4
82.5°	1104.9	1100.4	1889.6	3743.0	7585.3	8031.7	2611.1	1055.3	983.1	861.3	635.9
85°	387.8	405.9	712.5	1479.2	2985.4	3125.2	906.4	586.3	681.0	577.2	365.3
87.5°	135.3	139.8	252.5	536.7	1028.2	1086.8	252.5	234.5	338.2	333.7	184.9
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°	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1	6115.1
2.5°	6178.3	6218.8	6232.4	6394.7	6394.7	6394.7	6457.9	6457.9	6439.8	6394.7	6503.0
5°	6205.3	6277.5	6417.3	6557.1	6593.1	6624.7	6710.4	6638.2	6665.3	6620.2	6660.8
7.5°	6282.0	6381.2	6642.8	6728.4	6669.8	6737.5	6647.3	6597.7	6548.0	6566.1	6503.0
10°	6412.8	6539.0	6660.8	6818.6	6705.9	6638.2	6453.3	6408.2	6250.4	6196.3	6245.9
12.5°	6575.1	6728.4	6935.9	6877.3	6660.8	6466.9	6268.4	6079.0	5984.3	5849.0	5885.1
15°	6737.5	6913.3	6944.9	6845.7	6575.1	6331.6	5970.8	5704.7	5610.0	5488.3	5551.4
17.5°	6913.3	7080.2	7026.1	6769.0	6403.7	6033.9	5623.6	5362.0	5163.6	5086.9	5086.9
20°	7174.9	7256.1	7170.4	6642.8	6196.3	5709.2	5312.4	5014.8	4816.3	4784.8	4735.2
22.5°	7377.8	7508.6	7125.3	6457.9	5894.1	5285.3	4829.9	4717.1	4658.5	4608.9	4545.8
25°	7639.4	7634.9	7044.1	6286.5	5375.5	4780.3	4505.2	4496.1	4469.1	4451.0	4536.7
27.5°	7887.4	7783.7	6949.4	5862.6	4838.9	4396.9	4248.1	4347.3	4387.9	4360.9	4396.9
30°	8279.8	8108.4	6814.1	5411.6	4365.4	4009.1	4036.2	4171.4	4239.1	4279.7	4225.6
32.5°	8694.7	8433.1	6534.5	4942.6	3946.0	3765.6	3828.7	3968.5	4049.7	4094.8	4144.4
35°	9294.4	8685.6	6250.4	4329.3	3643.8	3616.8	3652.8	3729.5	3846.8	3878.3	3891.8
37.5°	10034.0	9069.0	5867.1	3837.7	3409.3	3440.9	3477.0	3504.0	3508.5	3567.2	3544.6
40°	10773.6	9393.7	5307.9	3368.7	3165.8	3337.2	3319.1	3269.5	3228.9	3174.8	3161.3
42.5°	11423.0	9677.8	4685.6	2971.9	2949.3	3228.9	3170.3	3044.0	2949.3	2908.7	2841.1
45°	12153.6	10079.1	4058.7	2723.8	2782.5	3098.1	3080.1	2886.2	2764.4	2620.1	2602.1
47.5°	13100.6	10498.5	3458.9	2466.8	2624.6	3048.5	3057.6	2809.5	2633.7	2439.7	2412.7
50°	14313.7	11102.8	3003.4	2358.6	2529.9	2976.4	2989.9	2705.8	2475.8	2277.4	2259.3
52.5°	15477.2	11720.6	2624.6	2191.7	2466.8	2890.7	2922.3	2611.1	2345.0	2097.0	2110.5
55°	16063.5	11495.2	2299.9	2069.9	2322.5	2750.9	2868.2	2543.5	2146.6	1975.2	1970.7
57.5°	16194.2	10940.5	2042.9	1943.7	2200.7	2602.1	2778.0	2340.5	2056.4	1912.1	1894.1
60°	15765.8	9970.9	1839.9	1808.4	2047.4	2448.8	2570.5	2232.3	1966.2	1849.0	1821.9
62.5°	14710.6	8965.2	1700.1	1745.2	1916.6	2281.9	2439.7	2155.6	1880.5	1799.4	1740.7
65°	12063.4	7373.3	1587.4	1623.5	1781.3	2119.5	2358.6	2069.9	1803.9	1727.2	1722.7
67.5°	8356.4	5082.4	1497.2	1564.9	1673.1	2002.3	2277.4	1975.2	1704.7	1677.6	1641.5
70°	4279.7	2710.3	1380.0	1434.1	1555.8	1853.5	2133.1	1876.0	1600.9	1596.4	1551.3
72.5°	2169.2	1587.4	1244.7	1325.8	1411.5	1659.6	1952.7	1745.2	1470.2	1420.5	1348.4
73°	1876.0	1470.2	1222.1	1294.3	1375.5	1605.4	1898.6	1713.7	1452.1	1380.0	1312.3
75°	1366.4	1159.0	1095.9	1168.0	1231.1	1447.6	1718.2	1569.4	1334.9	1258.2	1195.1
77.5°	1023.7	892.9	911.0	992.1	1046.2	1249.2	1528.8	1420.5	1208.6	1104.9	1077.8
80°	753.1	681.0	753.1	829.8	870.4	1100.4	1393.5	1231.1	1019.2	901.9	879.4
82.5°	536.7	496.1	581.7	631.4	649.4	911.0	1253.7	983.1	771.2	617.8	568.2
85°	306.7	302.1	392.3	387.8	401.4	532.1	825.3	653.9	496.1	378.8	369.8
87.5°	135.3	148.8	198.4	157.8	166.9	252.5	351.8	243.5	202.9	112.7	85.7
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)