

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: P285832

Luminaire Tested: **USSL-XL-C04-D-U-T4-BZ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-9)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C04-D-U-T4-BZ
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K LEDS AND TYPE IV OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38446.8 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

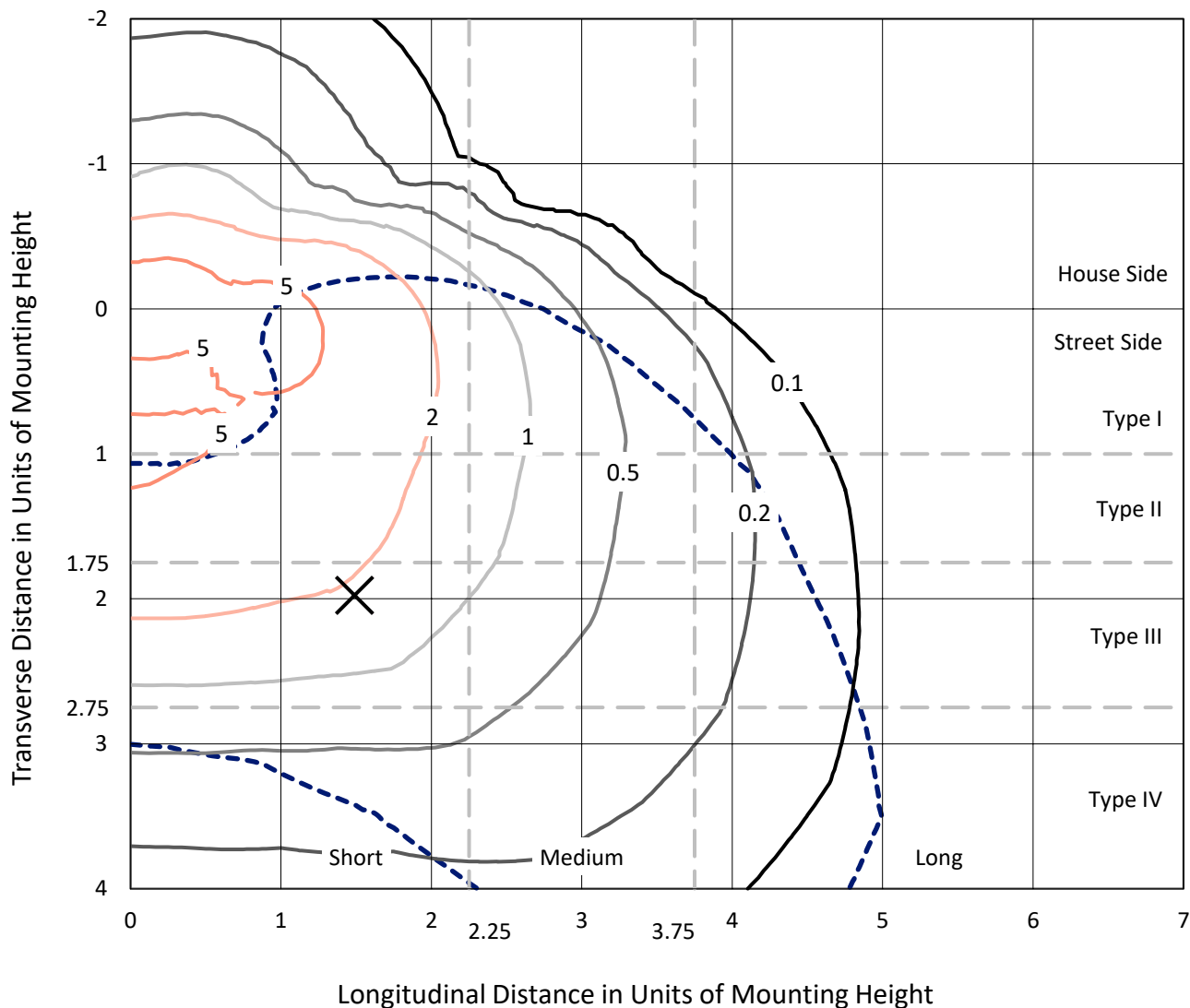
Input Watts (W): 264
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

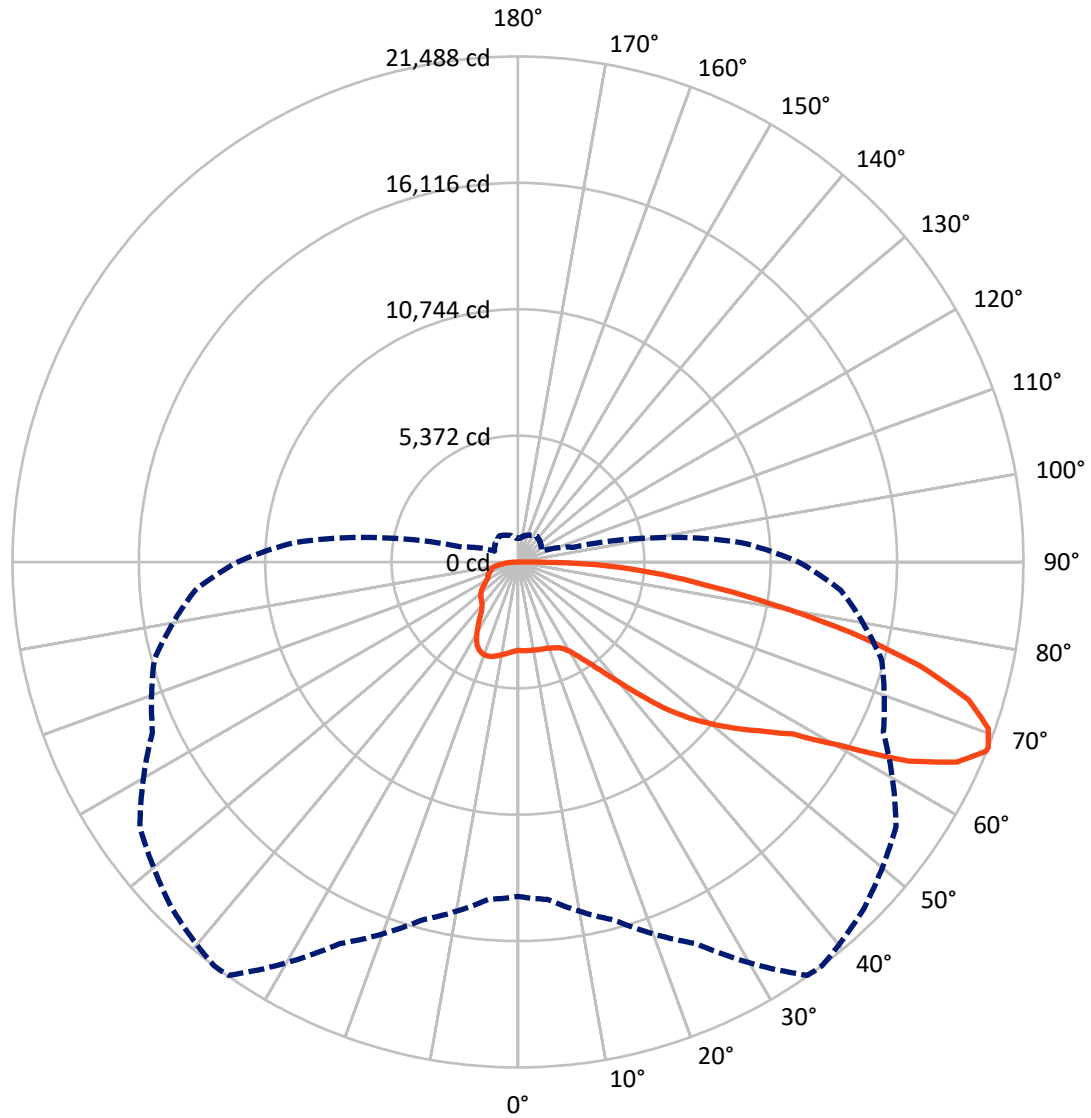
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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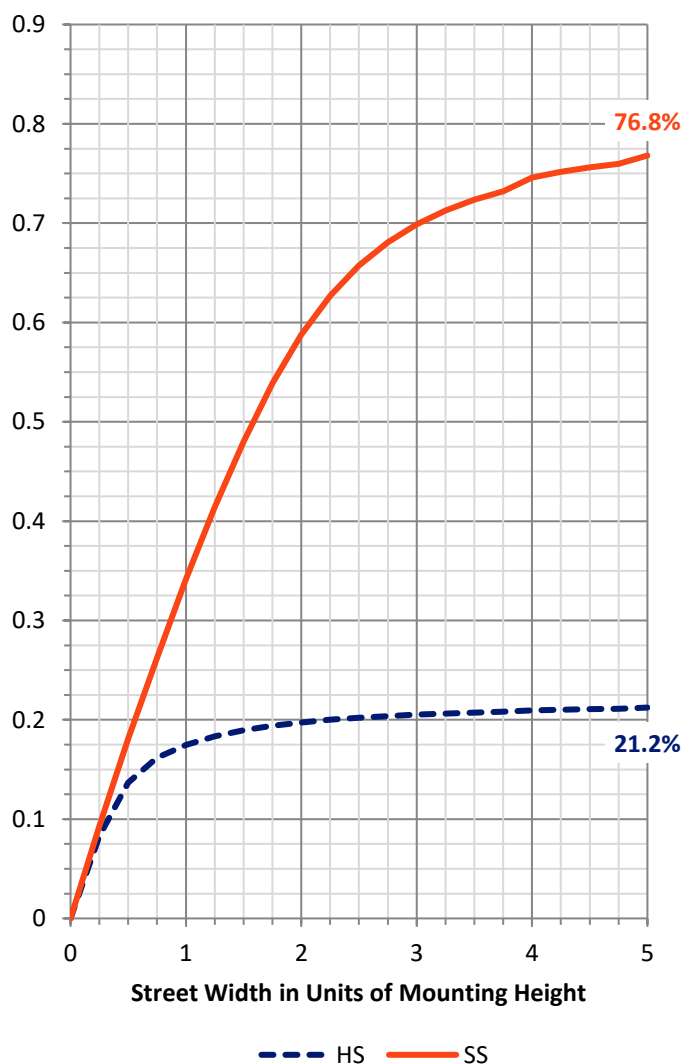
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8301.8	0.0	8301.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	30145.0	0.0	30145.0
	% Fixture	78.4	0.0	78.4
Total	Lumens	38446.8	0.0	38446.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.1	0.9
10°-20°	1134.8	3.0
20°-30°	1938.3	5.0
30°-40°	3088.0	8.0
40°-50°	5355.8	13.9
50°-60°	7763.5	20.2
60°-70°	9790.6	25.5
70°-80°	7254.7	18.9
80°-90°	1756.0	4.6
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°	38446.8	100.0
0°-180°	38446.8	100.0

Coefficient of Utilization



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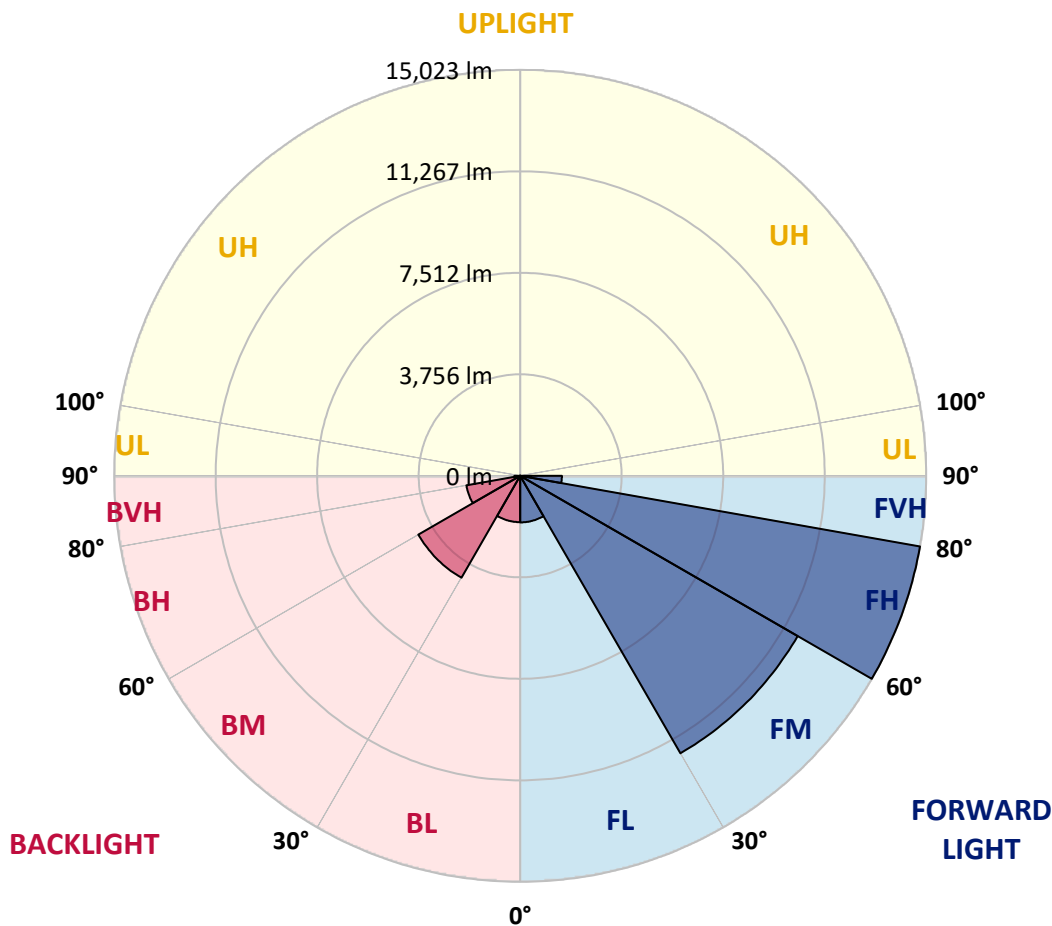
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1723.6	4.5			
FM (30°-60°)	11855.3	30.8			
FH (60°-80°)	15023.0	39.1			G5
FVH (80°-90°)	1543.1	4.0			G5
BL (0°-30°)	1714.6	4.5	B3/2500		
BM (30°-60°)	4352.0	11.3	B3/5000		
BH (60°-80°)	2022.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	212.8	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°	35°	37°	45°	55°	65°	75°	85°
0°	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6
2.5°	3758.0	3768.4	3771.3	3765.4	3771.3	3777.2	3763.9	3762.4	3756.6	3733.0	3735.9
5°	3759.5	3772.7	3774.2	3769.9	3780.1	3786.1	3780.1	3774.2	3768.4	3734.5	3741.9
7.5°	3759.5	3769.9	3772.7	3769.9	3784.6	3794.9	3794.9	3799.3	3799.3	3760.9	3766.9
10°	3746.2	3755.1	3759.5	3766.9	3791.9	3806.6	3815.4	3836.1	3847.9	3821.4	3822.8
12.5°	3685.8	3693.2	3708.0	3750.7	3809.6	3827.3	3852.3	3889.1	3918.6	3918.6	3921.5
15°	3638.7	3646.1	3674.0	3731.5	3821.4	3844.9	3893.5	3955.4	4009.9	4039.4	4063.0
17.5°	3650.5	3659.3	3700.5	3749.2	3839.1	3862.6	3931.9	4021.7	4111.6	4174.9	4222.1
20°	3687.3	3693.2	3740.4	3796.3	3892.1	3908.3	3976.0	4086.6	4211.7	4316.3	4393.0
22.5°	3791.9	3788.9	3827.3	3849.3	3948.0	3962.8	4040.9	4154.3	4316.3	4473.9	4586.0
25°	3878.8	3892.1	3923.0	3940.7	4021.7	4034.9	4132.2	4257.4	4444.5	4647.8	4827.5
27.5°	3974.6	3986.4	4017.3	4057.1	4170.5	4177.9	4245.6	4400.3	4608.0	4857.0	5144.2
30°	4191.2	4189.7	4220.6	4263.3	4416.5	4429.7	4493.1	4652.2	4845.2	5156.1	5502.3
32.5°	4565.3	4562.3	4566.8	4625.7	4792.2	4823.1	4904.2	5114.8	5356.4	5656.9	6041.4
35°	5332.9	5301.9	5243.0	5195.8	5290.1	5325.5	5502.3	5763.0	6194.6	6785.4	7261.2
37.5°	6601.3	6552.6	6353.8	6084.1	5975.1	5970.7	6094.4	6490.7	7162.5	8346.9	8777.0
40°	7816.6	7818.0	7548.5	7183.2	6842.8	6825.1	6754.4	7244.9	8209.9	9812.7	10014.6
42.5°	8968.6	8961.2	8647.4	8313.0	7906.4	7853.4	7647.2	8024.3	9255.9	11019.3	11059.0
45°	10007.2	9983.6	9646.3	9431.2	9082.1	8976.0	8702.0	8821.2	10235.5	11987.0	11847.1
47.5°	11010.3	10986.8	10565.5	10357.8	10051.3	9963.0	9672.8	9725.7	11172.4	12792.9	12485.0
50°	12046.0	12038.7	11428.8	11227.0	10901.4	10864.5	10689.2	10727.6	12150.6	13463.2	13078.7
52.5°	13273.1	13083.1	12398.1	12012.2	11780.9	11779.4	11583.4	11682.1	13231.9	14061.3	13491.1
55°	14590.2	14350.0	13648.9	13093.5	12695.7	12701.5	12396.6	12555.7	14182.1	14596.1	13886.0
57.5°	15530.1	15479.9	15270.7	14715.3	13893.4	13796.1	13327.7	13452.9	15015.9	15150.0	14170.3
60°	16406.6	16620.2	16760.1	16583.3	16169.4	15888.0	14588.7	14401.6	15751.0	15637.6	14319.1
62.5°	16959.0	17069.5	17722.1	17965.2	18614.8	18637.0	17082.7	15550.6	16377.2	15944.0	14385.4
65°	16350.5	16514.1	17595.4	18545.6	20398.8	20504.9	19849.4	17467.3	16876.5	16050.1	14260.2
67.5°	14653.5	14824.4	16123.7	18072.7	21385.8	21458.0	20777.4	19456.1	17125.4	16027.9	13893.4
68°	14218.9	14401.6	15756.9	17894.5	21453.6	21487.5	20814.2	19621.0	17141.7	16002.9	13774.0
70°	12420.2	12599.9	13972.9	16779.3	21185.5	21207.6	20581.5	19794.8	17057.7	15787.8	12988.9
72.5°	9756.7	9937.9	11020.7	14233.6	19839.0	20032.0	19712.3	19299.8	16702.6	14949.6	11137.1
75°	6913.5	7099.1	8226.1	11140.0	17103.4	17639.6	18277.4	18351.1	15373.8	12838.6	8296.8
77.5°	4874.7	5026.5	6001.7	8327.7	13803.5	14497.3	15826.1	15935.2	12875.5	9796.5	4376.8
80°	3164.3	3294.0	4167.5	6103.3	10434.4	11034.0	12493.9	12043.1	9149.8	5327.0	761.6
82.5°	1910.7	2007.9	2654.6	4222.1	7635.4	8034.6	8629.8	7230.2	4245.6	752.7	266.7
85°	1096.0	1162.3	1639.7	2712.1	5379.9	5720.3	5802.7	3629.8	798.4	207.7	150.3
87.5°	561.3	595.1	879.5	1666.2	3179.1	3324.9	2910.9	1299.3	159.1	92.8	75.1
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°	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6	3756.6
2.5°	3721.2	3731.5	3738.9	3763.9	3790.4	3803.7	3790.4	3811.1	3818.4	3812.6	3803.7
5°	3730.0	3746.2	3758.0	3808.1	3837.6	3859.6	3844.9	3874.4	3884.7	3873.0	3873.0
7.5°	3755.1	3777.2	3796.3	3862.6	3896.5	3926.0	3917.2	3937.7	3946.6	3931.9	3940.7
10°	3821.4	3843.5	3868.5	3951.0	3973.1	4001.1	3984.9	4001.1	4004.1	3993.7	4001.1
12.5°	3936.3	3951.0	3999.6	4083.6	4086.6	4093.9	4060.1	4029.1	4015.9	3996.7	4009.9
15°	4083.6	4110.1	4176.4	4247.1	4227.9	4211.7	4127.8	4027.6	3964.2	3917.2	3914.2
17.5°	4247.1	4294.3	4376.8	4422.4	4378.2	4304.6	4163.2	3993.7	3840.5	3756.6	3730.0
20°	4415.0	4488.7	4580.0	4588.8	4513.8	4372.3	4157.2	3906.8	3653.5	3497.2	3459.0
22.5°	4619.8	4715.6	4798.1	4753.9	4603.6	4395.9	4102.8	3753.6	3406.0	3168.8	3133.4
25°	4890.9	4985.1	4999.9	4870.2	4637.5	4351.7	3977.5	3525.2	3084.8	2790.2	2762.2
27.5°	5217.9	5268.0	5172.3	4930.7	4596.3	4219.1	3763.9	3208.5	2726.8	2470.5	2427.8
30°	5580.4	5562.7	5299.0	4932.1	4475.4	3993.7	3439.8	2849.1	2443.9	2223.0	2181.7
32.5°	6039.9	5923.6	5427.1	4865.9	4276.6	3690.3	3058.2	2561.8	2249.5	2024.1	1984.3
35°	6953.3	6599.8	5600.9	4761.3	4012.9	3326.4	2723.8	2354.1	2083.0	1823.8	1787.0
37.5°	8342.5	7610.3	5914.8	4646.4	3719.7	2953.7	2467.6	2192.1	1951.9	1675.0	1617.5
40°	9560.8	8727.0	6415.6	4538.8	3420.7	2670.8	2320.2	2114.0	1879.7	1599.8	1540.9
42.5°	10496.3	9621.2	6988.7	4410.7	3108.4	2461.6	2258.3	2103.7	1870.9	1599.8	1545.3
45°	11252.0	10359.3	7498.4	4270.7	2806.4	2296.7	2202.4	2084.5	1853.2	1591.0	1539.4
47.5°	11848.6	10910.2	7900.6	4110.1	2492.6	2184.7	2144.9	2018.3	1807.6	1564.5	1512.9
50°	12365.6	11305.0	8125.9	3921.5	2214.1	2096.3	2063.9	1912.2	1716.2	1486.4	1452.5
52.5°	12726.6	11626.1	8211.4	3843.5	2015.3	1996.1	1953.4	1804.6	1617.5	1393.6	1355.3
55°	12997.7	11791.2	8140.7	3665.2	1816.5	1841.5	1822.3	1722.1	1548.3	1336.1	1297.8
57.5°	13136.2	11845.7	7938.9	2993.5	1627.8	1657.3	1670.6	1676.4	1538.0	1352.3	1317.0
60°	13184.7	11760.2	7498.4	2137.5	1426.0	1484.9	1558.6	1580.7	1492.3	1290.5	1261.1
62.5°	13111.1	11537.8	6635.1	1477.6	1272.8	1377.4	1474.6	1468.7	1374.5	1199.2	1159.4
65°	12823.8	10992.8	5045.5	1191.8	1221.2	1328.8	1436.4	1364.2	1272.8	1110.8	1090.1
67.5°	12128.5	9845.1	2829.9	1100.5	1205.0	1300.8	1370.0	1283.1	1181.5	1028.3	1019.4
68°	11922.3	9507.7	2415.9	1094.6	1202.1	1291.9	1352.3	1262.4	1163.8	1015.0	1009.1
70°	10720.1	7769.5	1090.1	1075.4	1184.4	1259.6	1303.8	1205.0	1099.0	969.4	960.5
72.5°	8283.5	4811.3	732.2	1022.4	1140.2	1210.9	1238.9	1146.1	1057.8	913.3	901.6
75°	4910.0	1322.9	693.8	931.0	1065.1	1163.8	1193.2	1100.5	995.9	829.4	810.2
77.5°	1208.0	477.3	671.8	827.9	987.0	1085.8	1132.8	1069.5	942.8	746.9	727.7
80°	366.8	380.1	639.3	716.0	888.3	969.4	997.4	997.4	872.1	525.9	553.9
82.5°	241.6	304.9	545.1	537.7	705.7	802.9	749.9	752.7	685.0	234.2	274.0
85°	151.8	249.0	368.3	352.1	449.3	492.0	533.2	548.0	481.7	67.7	4.5
87.5°	78.1	106.1	129.6	138.5	178.3	254.9	341.8	335.9	247.5	60.4	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)