

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: P196362

Luminaire Tested: **NVN-AF-06-LED-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196362
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24256)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-06-LED-U-T4FT
Description: NAVION ROADWAY AND AREA LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37140.3 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

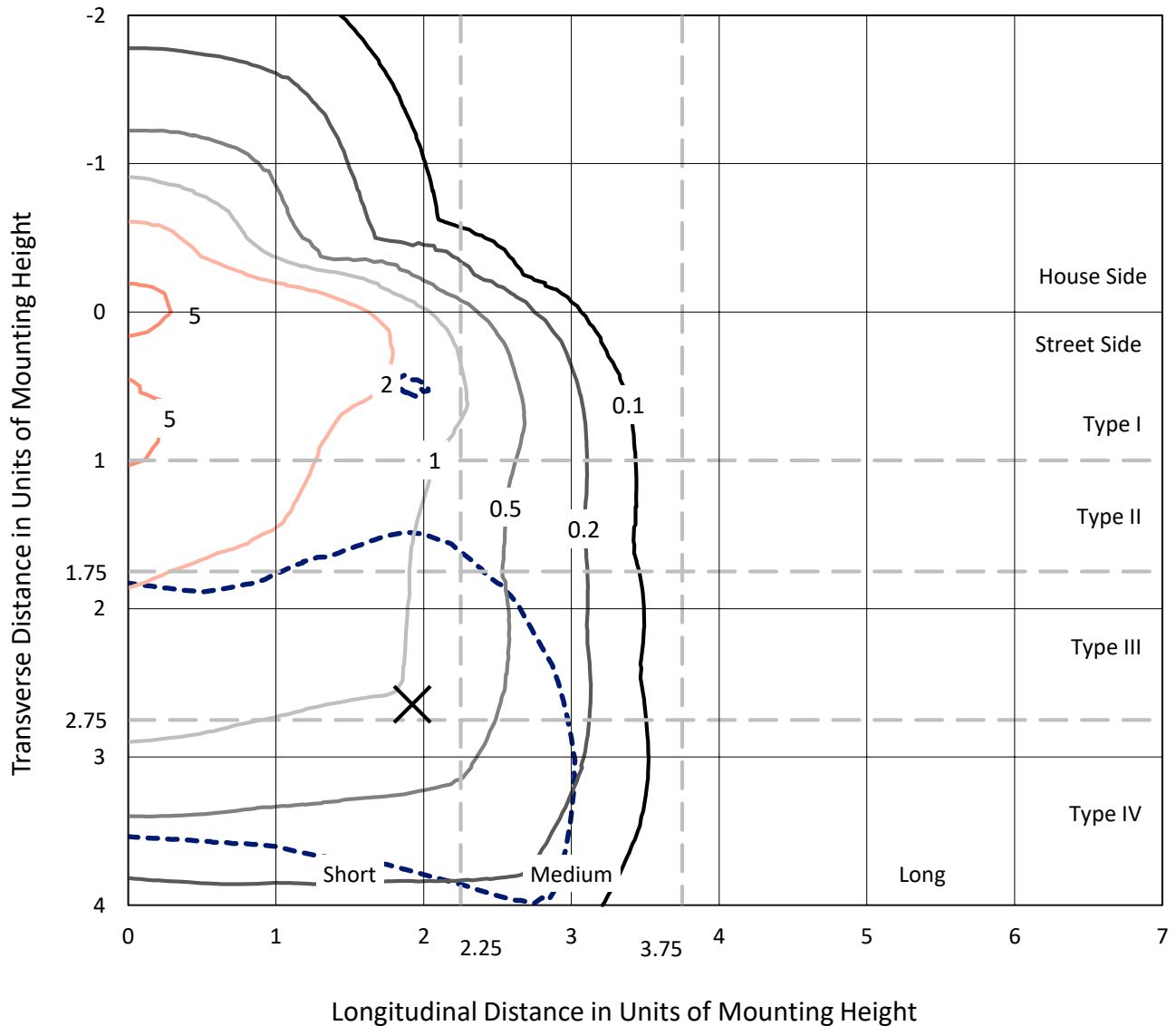
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

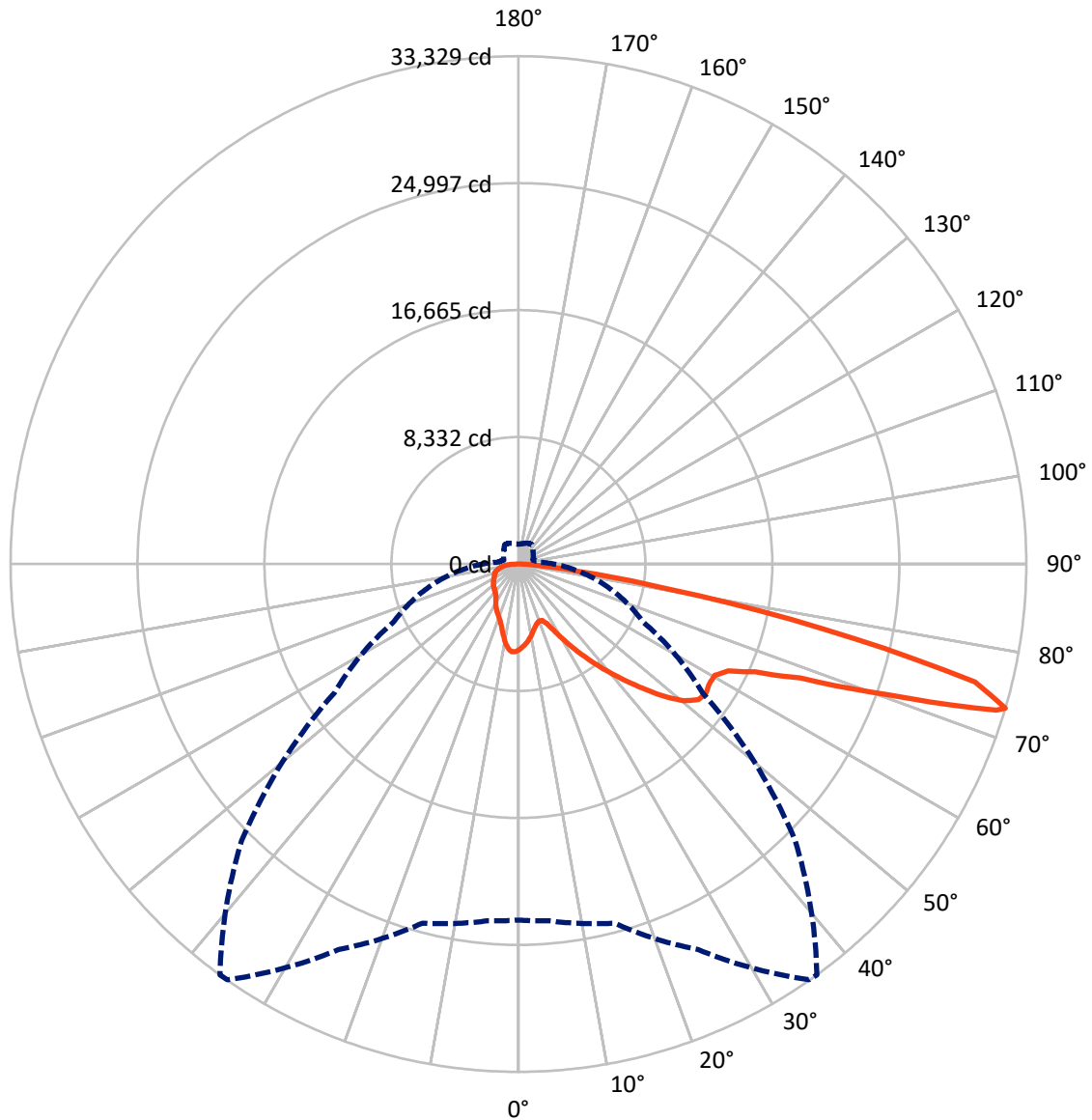


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7161.8	0.0	7161.8
	% Fixture	19.3	0.0	19.3
Street Side	Lumens	29978.5	0.0	29978.5
	% Fixture	80.7	0.0	80.7
Total	Lumens	37140.3	0.0	37140.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	511.0	1.4
10°-20°	1283.3	3.5
20°-30°	2057.5	5.5
30°-40°	3403.3	9.2
40°-50°	5266.2	14.2
50°-60°	7049.9	19.0
60°-70°	9209.4	24.8
70°-80°	7522.4	20.3
80°-90°	837.3	2.3
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°	37140.3	100.0
0°-180°	37140.3	100.0

Coefficient of Utilization



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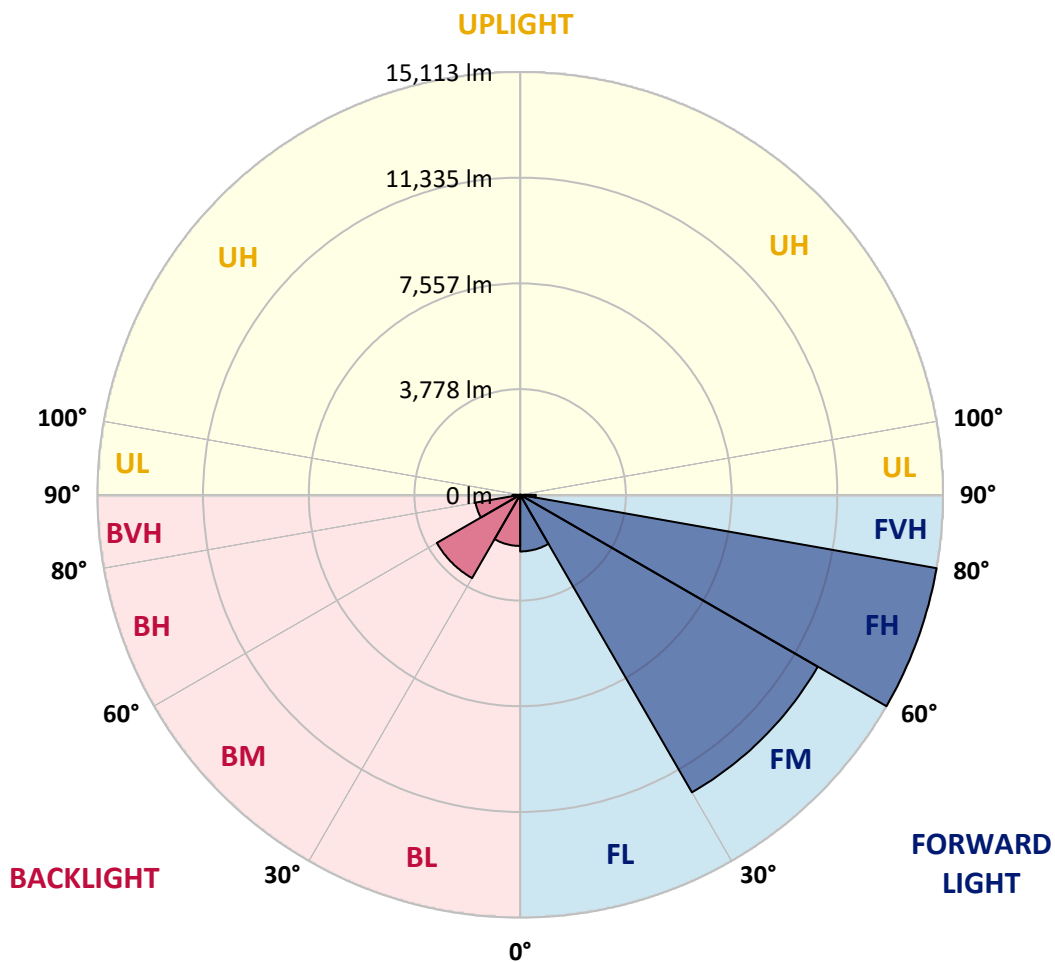
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2023.7	5.4			
FM	(30°-60°)	12279.9	33.1			
FH	(60°-80°)	15113.4	40.7			G5
FVH	(80°-90°)	561.5	1.5			G4/750
BL	(0°-30°)	1828.1	4.9	B3/2500		
BM	(30°-60°)	3439.5	9.3	B3/5000		
BH	(60°-80°)	1618.4	4.4	B3/2500		G3/2500
BVH	(80°-90°)	275.8	0.7			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°	35°	36°	45°	55°	65°	75°	85°
0°	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7
2.5°	5410.9	5425.1	5427.5	5443.9	5443.9	5441.6	5448.6	5477.0	5491.2	5524.2	5552.5
5°	5144.3	5160.8	5167.8	5196.2	5231.6	5233.9	5259.9	5314.2	5366.1	5439.2	5500.6
7.5°	4844.6	4863.5	4882.3	4941.4	4993.2	4997.9	5047.5	5134.8	5203.2	5293.0	5403.8
10°	4554.4	4559.1	4577.9	4653.4	4721.8	4729.0	4799.8	4898.9	4990.9	5116.0	5241.0
12.5°	4316.0	4330.2	4325.4	4382.1	4441.0	4445.7	4540.2	4665.3	4799.8	4941.4	5090.0
15°	4233.4	4231.0	4181.5	4179.2	4205.1	4209.9	4301.8	4448.2	4599.2	4773.8	4964.9
17.5°	4290.1	4271.1	4141.4	4061.1	4044.6	4049.4	4117.8	4278.3	4438.7	4639.3	4868.2
20°	4601.5	4528.4	4224.0	4030.4	3976.2	3976.2	4016.3	4146.1	4323.1	4556.7	4844.6
22.5°	5340.1	5226.9	4577.9	4233.4	4042.3	4023.4	3992.7	4091.8	4287.7	4568.5	4941.4
25°	6269.9	6215.7	5226.9	4773.8	4379.8	4318.4	4115.4	4150.8	4360.8	4696.0	5205.6
27.5°	7131.2	7036.8	6078.8	5559.6	5002.7	4908.3	4478.8	4334.9	4535.5	4932.0	5587.9
30°	7633.9	7570.1	6954.2	6458.7	5795.5	5675.2	5059.3	4698.3	4846.9	5321.3	6130.6
32.5°	8181.3	8143.5	7832.0	7381.3	6654.5	6515.3	5809.7	5290.6	5323.6	5838.1	6784.3
35°	8712.3	8761.8	8584.8	8254.5	7579.6	7449.7	6817.4	6064.6	5911.2	6418.5	7482.8
37.5°	9349.4	9361.1	9250.2	9035.5	8551.8	8445.6	7924.1	6890.5	6550.7	7036.8	8157.7
40°	10621.3	10434.9	10000.7	9830.8	9542.9	9476.8	8882.2	7648.0	7145.3	7671.6	8794.8
42.5°	11997.1	11706.8	11027.2	10748.8	10633.1	10571.7	9679.8	8153.0	7702.3	8306.4	9420.1
45°	13106.1	12870.2	12204.7	11860.2	11874.3	11775.2	10375.9	8603.7	8306.4	8943.5	10118.6
47.5°	14198.7	13804.6	13058.9	13009.4	13174.6	13028.2	11041.3	9054.4	8936.4	9637.2	10817.2
50°	14269.4	13910.8	13608.7	14005.2	14288.4	14106.7	11645.4	9644.4	9590.1	10477.4	11718.6
52.5°	13408.1	13356.3	13816.4	14484.3	14953.8	14790.9	12138.6	10250.8	10257.8	11527.4	12815.8
55°	13094.3	13028.2	13580.4	14401.6	15036.4	14939.7	12506.7	10935.1	10998.9	12801.7	13993.4
57.5°	13622.9	13457.7	13566.3	14245.9	14842.9	14786.2	12889.0	11695.0	11810.6	14269.4	15081.3
60°	15262.9	14925.5	14349.7	14477.1	14850.0	14816.9	13436.5	12542.1	12735.6	15798.6	15770.3
62.5°	17719.5	17337.2	16164.4	15598.1	15515.4	15451.7	14340.2	13582.7	13679.5	16902.9	15369.1
65°	20414.3	20003.7	18609.1	17681.7	17195.6	17058.7	15798.6	14838.2	14231.7	16900.6	13807.0
67.5°	23439.5	23005.3	21615.5	20730.5	20204.3	19970.7	18165.5	15852.9	14052.4	15470.6	11048.4
70°	26537.9	26124.9	25487.7	25796.9	26028.2	25671.9	21893.9	16190.3	12764.0	12129.1	7419.1
72.5°	24893.1	24860.1	25343.8	28274.7	32732.3	32803.1	25617.6	15237.0	9861.5	7209.0	3954.9
73°	23366.3	23505.6	24402.3	27908.9	33305.6	33329.3	25690.7	14743.8	9054.4	6210.8	3473.5
75°	12105.6	13049.5	16376.7	22630.1	30839.7	30950.6	22646.6	11161.7	5396.8	3450.0	2340.9
77.5°	3242.3	3199.8	5276.4	11024.9	20560.6	20414.3	14309.5	5403.8	2586.3	2164.0	1642.3
80°	1111.4	1125.7	1795.8	4032.9	9597.1	9939.3	6210.8	2357.4	1701.4	1507.9	1163.4
82.5°	566.3	585.2	939.2	1715.6	4014.0	3929.1	1998.7	1387.5	1139.8	915.5	651.3
85°	302.1	311.5	516.8	889.7	1472.5	1489.0	703.2	740.9	724.5	519.1	320.9
87.5°	148.6	153.3	247.8	391.7	545.1	526.2	245.4	320.9	356.3	292.6	177.0
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°	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7	5625.7
2.5°	5587.9	5587.9	5618.6	5670.5	5708.3	5743.7	5767.3	5805.0	5826.2	5823.9	5821.5
5°	5550.1	5573.8	5635.1	5698.9	5741.3	5769.6	5769.6	5786.1	5786.1	5779.1	5769.6
7.5°	5462.9	5503.0	5592.7	5649.2	5661.1	5630.4	5569.0	5521.9	5462.9	5432.2	5420.4
10°	5323.6	5375.5	5488.8	5514.7	5453.5	5344.8	5196.2	5068.7	4955.5	4903.6	4887.0
12.5°	5186.8	5255.2	5361.4	5321.3	5175.0	4962.5	4733.7	4559.1	4431.6	4382.1	4365.5
15°	5073.5	5156.1	5238.6	5113.6	4858.7	4563.8	4311.3	4148.5	4051.7	4014.0	4004.5
17.5°	4997.9	5094.7	5123.0	4889.4	4535.5	4205.1	3980.9	3874.7	3832.3	3815.7	3811.0
20°	5002.7	5111.3	5042.8	4672.3	4224.0	3891.2	3742.6	3711.9	3711.9	3711.9	3709.5
22.5°	5132.5	5226.9	5009.8	4469.4	3924.2	3627.0	3563.2	3589.2	3608.0	3608.0	3605.7
25°	5401.5	5453.5	5033.3	4273.5	3643.4	3398.0	3400.4	3450.0	3466.5	3466.5	3461.8
27.5°	5812.1	5769.6	5075.9	4056.4	3367.3	3190.4	3223.4	3268.2	3280.1	3273.0	3270.7
30°	6326.5	6156.6	5111.3	3801.6	3107.8	2996.9	3025.2	3051.2	3041.7	3025.2	3022.8
32.5°	6902.3	6550.7	5090.0	3516.1	2878.9	2796.3	2812.8	2827.0	2812.8	2772.7	2772.7
35°	7473.4	6907.1	4974.4	3204.6	2697.2	2602.8	2600.4	2645.2	2642.9	2595.7	2598.1
37.5°	7973.6	7187.9	4750.2	2919.0	2541.4	2461.2	2470.6	2499.0	2513.2	2449.5	2442.4
40°	8410.2	7381.3	4434.0	2675.9	2416.4	2421.1	2395.1	2350.3	2333.8	2305.5	2300.7
42.5°	8820.8	7515.8	4098.9	2473.0	2352.7	2407.0	2319.6	2213.5	2168.7	2194.5	2211.1
45°	9224.4	7666.9	3775.6	2305.5	2272.5	2364.4	2244.1	2126.1	2074.2	2086.0	2102.6
47.5°	9717.5	7876.9	3386.3	2126.1	2149.7	2286.6	2196.9	2069.5	1991.7	1944.4	1930.3
50°	10366.5	8181.3	2881.2	1932.7	2019.9	2201.7	2156.8	1986.9	1902.0	1807.6	1784.0
52.5°	11178.2	8469.2	2371.6	1776.9	1913.7	2128.6	2090.7	1916.1	1812.3	1699.0	1680.2
55°	11987.6	8509.3	1932.7	1642.3	1793.4	2029.4	2010.5	1859.5	1713.2	1621.2	1602.2
57.5°	12554.0	8129.4	1637.6	1529.1	1677.7	1906.7	1937.4	1791.1	1630.6	1559.8	1548.0
60°	12563.4	7220.9	1458.3	1453.6	1590.5	1800.5	1861.9	1710.8	1578.7	1531.5	1522.0
62.5°	11565.2	5819.2	1342.7	1396.9	1526.8	1713.2	1805.2	1666.0	1566.9	1548.0	1538.5
65°	9693.9	4299.5	1250.7	1345.1	1467.7	1640.0	1758.0	1651.9	1562.1	1555.1	1548.0
67.5°	7157.2	2947.3	1172.8	1279.0	1401.7	1564.5	1713.2	1630.6	1533.8	1562.1	1552.7
70°	4502.4	1968.1	1099.7	1203.5	1314.4	1477.2	1654.2	1592.8	1498.4	1481.9	1451.3
72.5°	2541.4	1422.9	1012.3	1106.7	1201.1	1361.5	1573.9	1529.1	1418.2	1352.1	1321.4
73°	2296.0	1347.4	991.1	1083.1	1175.2	1338.0	1555.1	1510.3	1394.6	1321.4	1293.1
75°	1680.2	1102.0	894.4	986.4	1066.6	1229.5	1465.4	1415.9	1290.8	1203.5	1184.6
77.5°	1217.6	849.6	769.3	851.9	922.7	1078.4	1330.9	1274.3	1151.5	1104.4	1085.5
80°	877.8	644.3	637.1	717.4	778.8	936.8	1186.9	1128.0	1010.0	1149.2	1118.5
82.5°	523.9	413.0	467.3	556.9	620.6	785.8	1031.2	962.8	849.6	859.0	731.5
85°	250.1	233.6	290.2	365.8	410.6	538.1	859.0	804.7	679.6	556.9	545.1
87.5°	110.9	106.2	139.2	162.9	219.4	323.3	587.6	521.5	493.2	295.0	231.3
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)