

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: P197279

Luminaire Tested: **NVN-AF-05-LED-U-T3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (p24135)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-05-LED-U-T3-8030-1200
Description: NAVION ROADWAY AND AREA LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26924 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

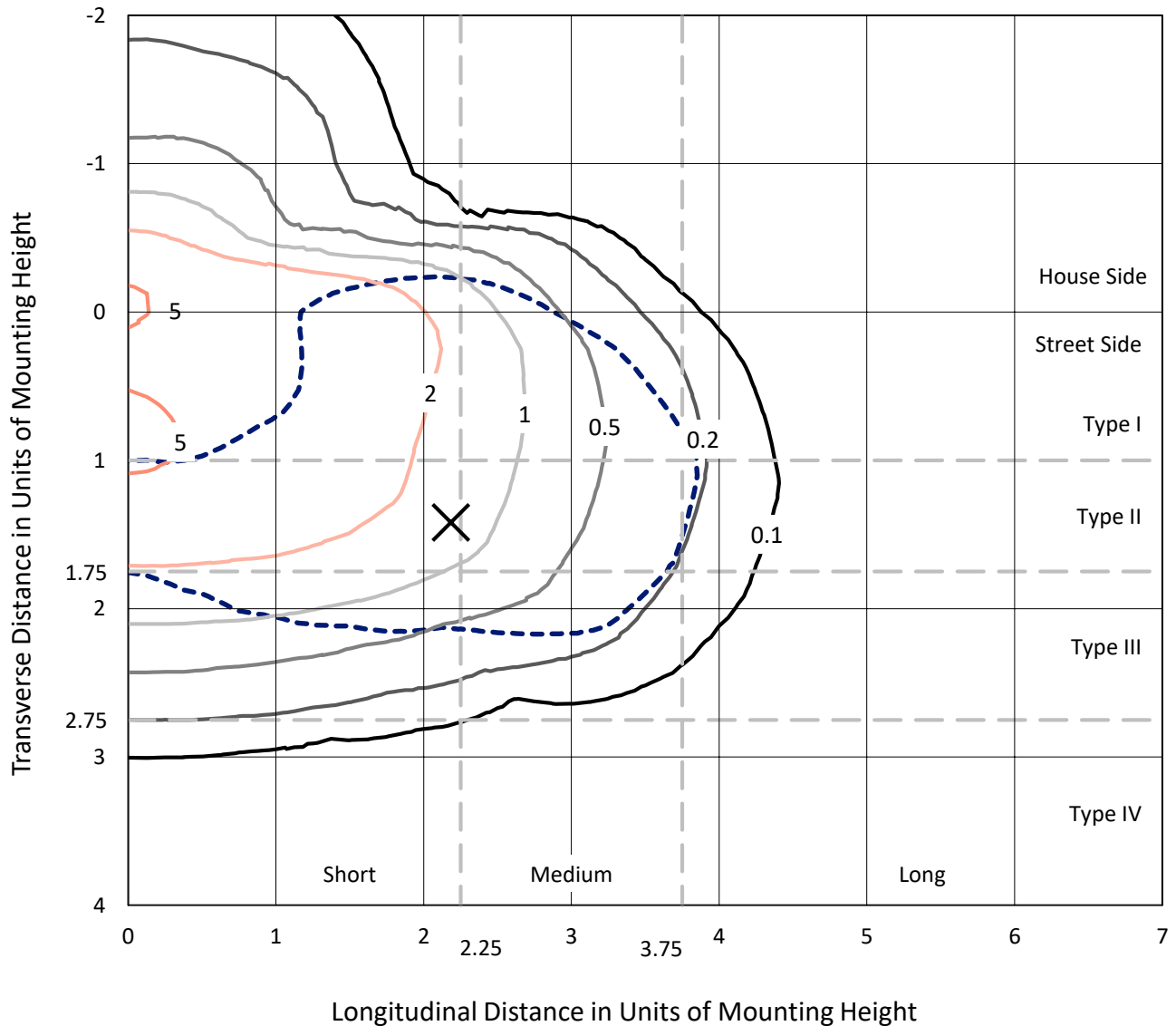
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

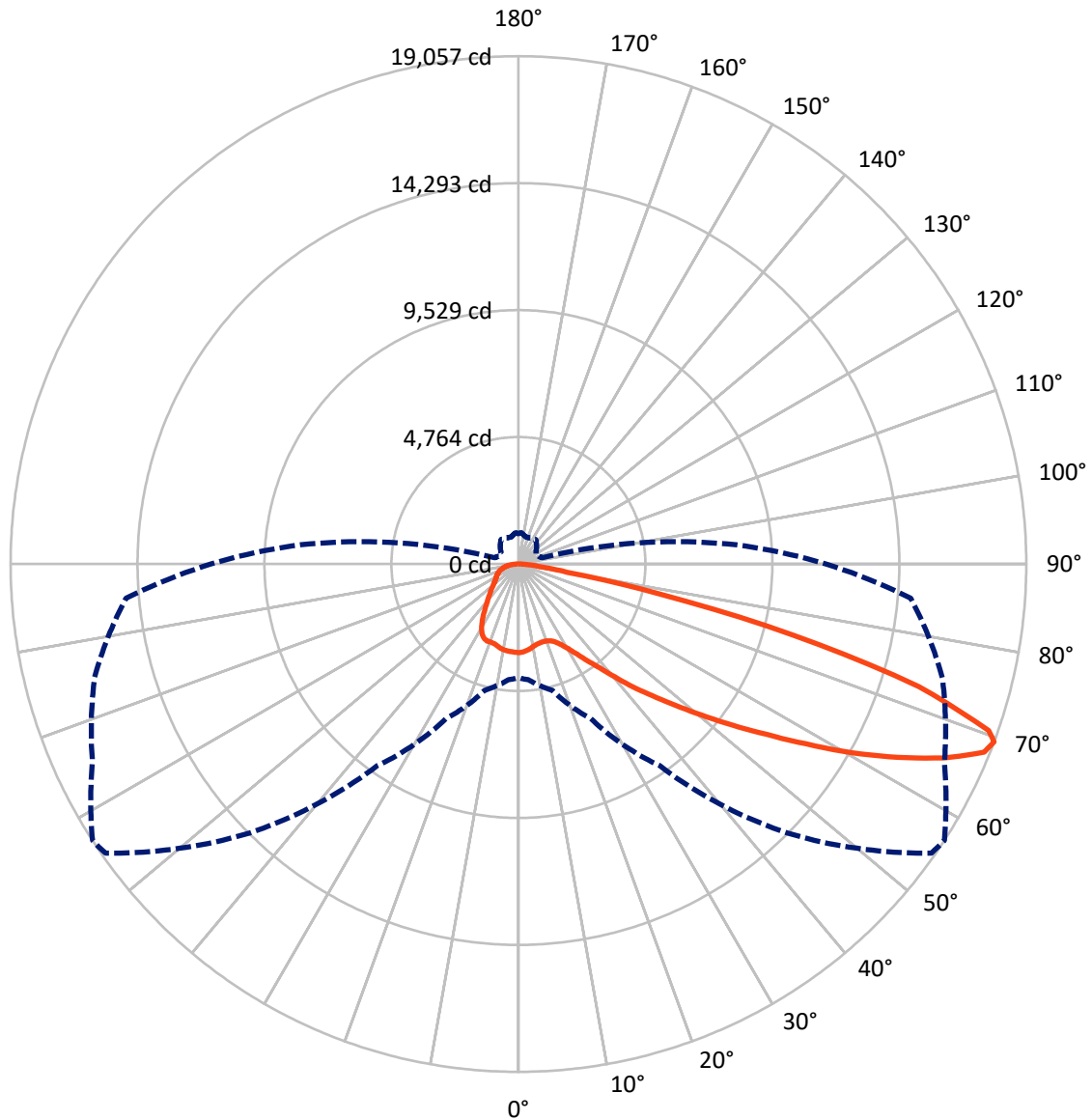
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5941.2	0.0	5941.2
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20982.8	0.0	20982.8
	% Fixture	77.9	0.0	77.9
Total	Lumens	26924.0	0.0	26924.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.5	1.2
10°-20°	885.5	3.3
20°-30°	1473.1	5.5
30°-40°	2405.5	8.9
40°-50°	4059.9	15.1
50°-60°	6315.3	23.5
60°-70°	7522.9	27.9
70°-80°	3504.7	13.0
80°-90°	445.7	1.7
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°	26924.0	100.0
0°-180°	26924.0	100.0

Coefficient of Utilization



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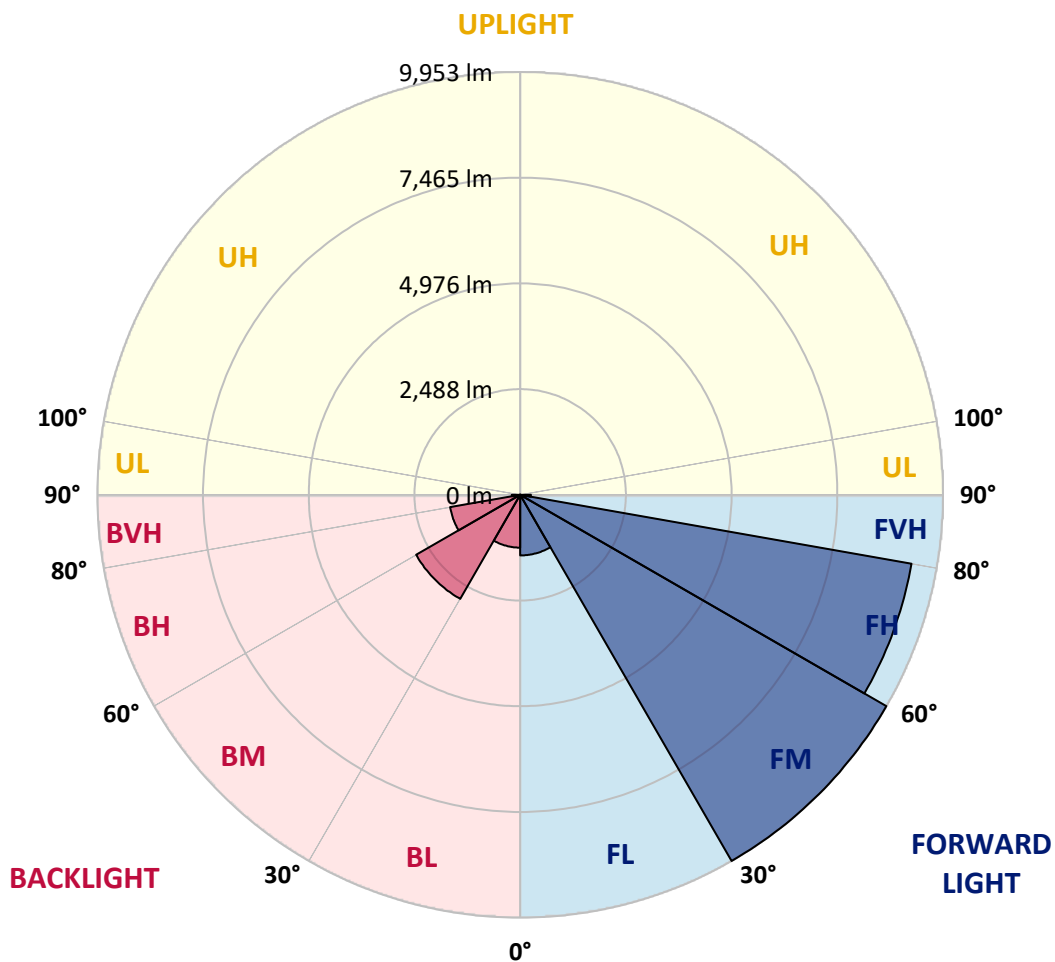
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1425.8	5.3			
FM	(30°-60°)	9953.0	37.0			
FH	(60°-80°)	9353.4	34.7			G4/12000
FVH	(80°-90°)	250.6	0.9			G3/500
BL	(0°-30°)	1244.2	4.6	B3/2500		
BM	(30°-60°)	2827.7	10.5	B3/5000		
BH	(60°-80°)	1674.1	6.2	B3/2500		G3/2500
BVH	(80°-90°)	195.2	0.7			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7
2.5°	3307.8	3307.8	3316.4	3316.4	3316.4	3312.9	3302.6	3306.0	3299.1	3294.0	3285.4
5°	3240.5	3244.0	3254.3	3257.8	3262.9	3264.7	3264.7	3262.9	3264.7	3264.7	3259.5
7.5°	3147.5	3150.9	3163.0	3169.9	3185.4	3199.2	3206.1	3206.1	3214.7	3221.6	3223.3
10°	3090.6	3090.6	3097.5	3097.5	3109.5	3116.4	3138.8	3137.1	3161.2	3183.7	3194.0
12.5°	3083.7	3083.7	3080.2	3068.2	3061.3	3059.6	3082.0	3085.4	3121.6	3161.2	3180.2
15°	3106.1	3106.1	3095.7	3071.6	3045.8	3033.7	3056.1	3063.0	3102.6	3149.2	3178.5
17.5°	3178.5	3176.8	3154.4	3106.1	3061.3	3042.3	3049.2	3056.1	3092.3	3145.7	3181.9
20°	3338.8	3338.8	3290.5	3202.6	3125.1	3080.2	3069.9	3075.1	3100.9	3150.9	3197.4
22.5°	3619.8	3624.9	3538.7	3393.9	3261.2	3166.4	3125.1	3130.2	3142.3	3190.6	3242.3
25°	4033.4	4019.6	3897.3	3692.1	3485.3	3323.3	3238.8	3244.0	3244.0	3288.8	3342.2
27.5°	4471.3	4474.7	4298.9	4078.3	3805.9	3564.6	3430.1	3428.4	3426.7	3469.8	3526.7
30°	4966.0	4967.7	4764.3	4509.2	4197.2	3888.6	3687.0	3685.3	3669.7	3723.2	3797.3
32.5°	5507.2	5505.5	5269.3	4981.5	4635.0	4285.1	4023.1	4021.4	4009.3	4081.7	4171.3
35°	6107.0	6107.0	5872.6	5517.5	5143.5	4753.9	4450.6	4448.8	4455.7	4554.0	4638.5
37.5°	6829.3	6844.8	6562.1	6131.2	5722.7	5307.2	4953.9	4943.5	4891.8	5057.3	5196.9
40°	7582.5	7625.6	7332.6	6829.3	6388.0	5958.8	5569.2	5562.3	5517.5	5693.3	5919.2
42.5°	8397.8	8496.1	8170.3	7656.6	7175.7	6712.1	6320.8	6301.8	6129.4	6403.5	6756.9
45°	9466.5	9530.3	9058.0	8592.6	8139.3	7610.1	7144.7	7043.0	6870.6	7222.3	7680.8
47.5°	10193.9	10162.9	9868.1	9556.1	9264.8	8758.1	8042.7	7913.5	7703.2	8168.6	8673.6
50°	10645.5	10667.9	10502.4	10486.9	10471.4	10118.1	9056.3	8901.1	8658.1	9209.7	9799.2
52.5°	10943.7	10842.0	10871.3	11222.9	11648.7	11479.8	10202.5	10030.2	9780.2	10331.8	10997.1
55°	10819.6	10685.2	10955.8	11648.7	12650.2	12688.1	11460.8	11283.3	11069.5	11524.6	12438.2
57.5°	10305.9	10373.2	10800.6	11764.2	13334.5	13770.6	12907.0	12726.0	12305.4	12767.4	13806.8
60°	9583.7	9719.9	10373.2	11581.5	13813.7	14613.4	14494.5	14373.9	13649.9	13977.4	15244.3
62.5°	8808.1	8942.5	9745.7	11269.5	13598.2	15359.8	16052.7	15978.6	15134.0	15142.6	16156.2
65°	7661.8	7717.0	8537.4	10418.0	13000.1	16033.8	17612.7	17547.2	16552.6	16137.2	16411.3
67.5°	5786.4	5855.4	6529.3	8223.7	11179.9	15668.3	18858.9	18848.6	17405.8	16506.1	15804.5
69°	4273.0	4357.5	4907.3	6384.5	9244.2	14275.6	18917.5	19057.1	17636.8	16468.1	14778.9
70°	3126.8	3223.3	3731.8	5067.7	7699.7	12738.1	18415.9	18715.8	17548.9	16228.5	13979.1
72.5°	1329.0	1361.7	1611.7	2287.3	3905.9	7680.8	15084.0	15714.9	15849.3	14541.1	10921.3
75°	832.5	842.9	941.1	1173.8	1737.5	3176.8	9768.2	10628.3	11833.1	11281.6	7311.9
77.5°	627.4	636.0	692.9	808.4	1079.0	1185.9	4531.6	5403.8	6777.6	6636.2	3638.7
80°	480.9	486.1	524.0	587.8	760.1	742.9	1470.3	1847.8	2828.6	2495.9	1287.6
82.5°	377.5	379.2	412.0	424.0	530.9	499.9	737.7	822.2	1142.8	949.8	629.1
85°	334.4	339.6	372.3	310.3	339.6	301.6	405.1	439.5	606.7	572.3	237.9
87.5°	170.6	179.3	312.0	265.4	170.6	143.1	177.5	191.3	246.5	267.2	115.5
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°	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7	3326.7
2.5°	3287.1	3288.8	3294.0	3302.6	3316.4	3333.6	3354.3	3375.0	3387.1	3395.7	3392.2
5°	3259.5	3261.2	3271.6	3287.1	3304.3	3330.2	3364.6	3390.5	3409.5	3421.5	3419.8
7.5°	3225.0	3230.2	3250.9	3268.1	3292.2	3312.9	3340.5	3364.6	3383.6	3395.7	3393.9
10°	3199.2	3204.3	3230.2	3252.6	3273.3	3276.7	3271.6	3264.7	3262.9	3271.6	3268.1
12.5°	3187.1	3197.4	3221.6	3237.1	3228.5	3195.7	3157.8	3142.3	3137.1	3154.4	3156.1
15°	3190.6	3199.2	3219.9	3209.5	3163.0	3107.8	3087.1	3099.2	3109.5	3119.9	3121.6
17.5°	3199.2	3204.3	3209.5	3171.6	3106.1	3069.9	3063.0	3050.9	3019.9	3002.7	3000.9
20°	3214.7	3221.6	3213.0	3152.6	3094.0	3045.8	2963.0	2888.9	2818.2	2780.3	2764.8
22.5°	3268.1	3273.3	3247.4	3188.8	3099.2	2942.3	2775.1	2647.6	2539.0	2480.4	2458.0
25°	3373.3	3381.9	3345.7	3271.6	3037.1	2763.1	2526.9	2354.6	2218.4	2147.7	2128.8
27.5°	3557.7	3566.3	3526.7	3333.6	2892.4	2523.5	2237.4	2066.7	1949.5	1889.2	1880.5
30°	3833.5	3845.6	3809.4	3331.9	2671.7	2218.4	1954.7	1854.7	1787.5	1746.1	1744.4
32.5°	4216.1	4261.0	4112.7	3273.3	2399.4	1909.8	1740.9	1706.5	1673.7	1646.1	1646.1
35°	4702.2	4807.4	4412.6	3150.9	2099.5	1699.6	1622.0	1589.2	1547.9	1518.6	1515.1
37.5°	5283.1	5446.9	4626.4	2933.7	1840.9	1597.9	1549.6	1496.2	1430.7	1373.8	1360.0
40°	6081.2	6119.1	4731.5	2580.4	1647.8	1542.7	1482.4	1415.1	1332.4	1268.6	1261.7
42.5°	6882.7	6758.6	4710.8	2201.2	1537.5	1492.7	1413.4	1339.3	1265.2	1211.8	1211.8
45°	7794.5	7317.1	4554.0	1820.2	1437.6	1435.8	1349.6	1279.0	1222.1	1182.5	1173.8
47.5°	8666.7	7818.7	4283.4	1539.3	1334.1	1379.0	1308.3	1251.4	1199.7	1161.8	1154.9
50°	9725.1	8399.5	3995.5	1342.8	1234.2	1329.0	1291.0	1261.7	1211.8	1146.3	1139.4
52.5°	10776.5	9078.7	3773.2	1194.5	1146.3	1289.3	1301.4	1304.8	1258.3	1130.7	1122.1
55°	11905.5	9804.4	3538.7	1079.0	1073.9	1270.4	1325.5	1322.1	1299.7	1134.2	1120.4
57.5°	12979.4	10533.5	3188.8	998.0	1017.0	1251.4	1330.7	1275.5	1235.9	1151.4	1129.0
60°	13868.8	11136.8	2675.2	941.1	968.7	1213.5	1296.2	1213.5	1146.3	1148.0	1127.3
62.5°	14301.5	11305.7	2046.0	875.6	929.1	1151.4	1246.2	1166.9	1104.9	1154.9	1142.8
65°	13972.2	10824.8	1458.2	815.3	880.8	1079.0	1216.9	1127.3	1084.2	1189.3	1175.6
67.5°	12789.8	9514.8	1058.3	761.9	834.3	1004.9	1161.8	1091.1	1063.5	1215.2	1184.2
69°	11533.2	8215.1	917.0	730.8	801.5	965.3	1125.6	1072.1	1048.0	1179.0	1134.2
70°	10488.7	7213.6	846.3	711.9	773.9	942.9	1098.0	1060.1	1032.5	1135.9	1082.5
72.5°	7520.5	4662.6	711.9	655.0	701.5	892.9	1037.7	1015.3	973.9	1025.6	991.1
75°	4543.6	2433.9	605.0	596.4	625.7	823.9	967.0	939.4	898.0	903.2	886.0
77.5°	2087.4	1123.8	506.8	527.4	546.4	737.7	880.8	849.8	811.9	798.1	799.8
80°	915.3	656.7	424.0	449.9	460.2	663.6	787.7	753.3	711.9	786.0	729.1
82.5°	494.7	380.9	330.9	348.2	377.5	577.4	684.3	639.5	599.8	698.1	563.6
85°	199.9	194.8	224.1	241.3	262.0	415.4	572.3	525.7	477.5	427.5	417.1
87.5°	86.2	93.1	110.3	117.2	139.6	258.6	384.4	336.1	337.8	289.6	284.4
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)