

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: P196044

Luminaire Tested: **NVN-AF-06-LED-U-RW-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P196044
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24161)
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-RW-800
Description: NAVION ROADWAY AND AREA LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30422.6 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 249
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

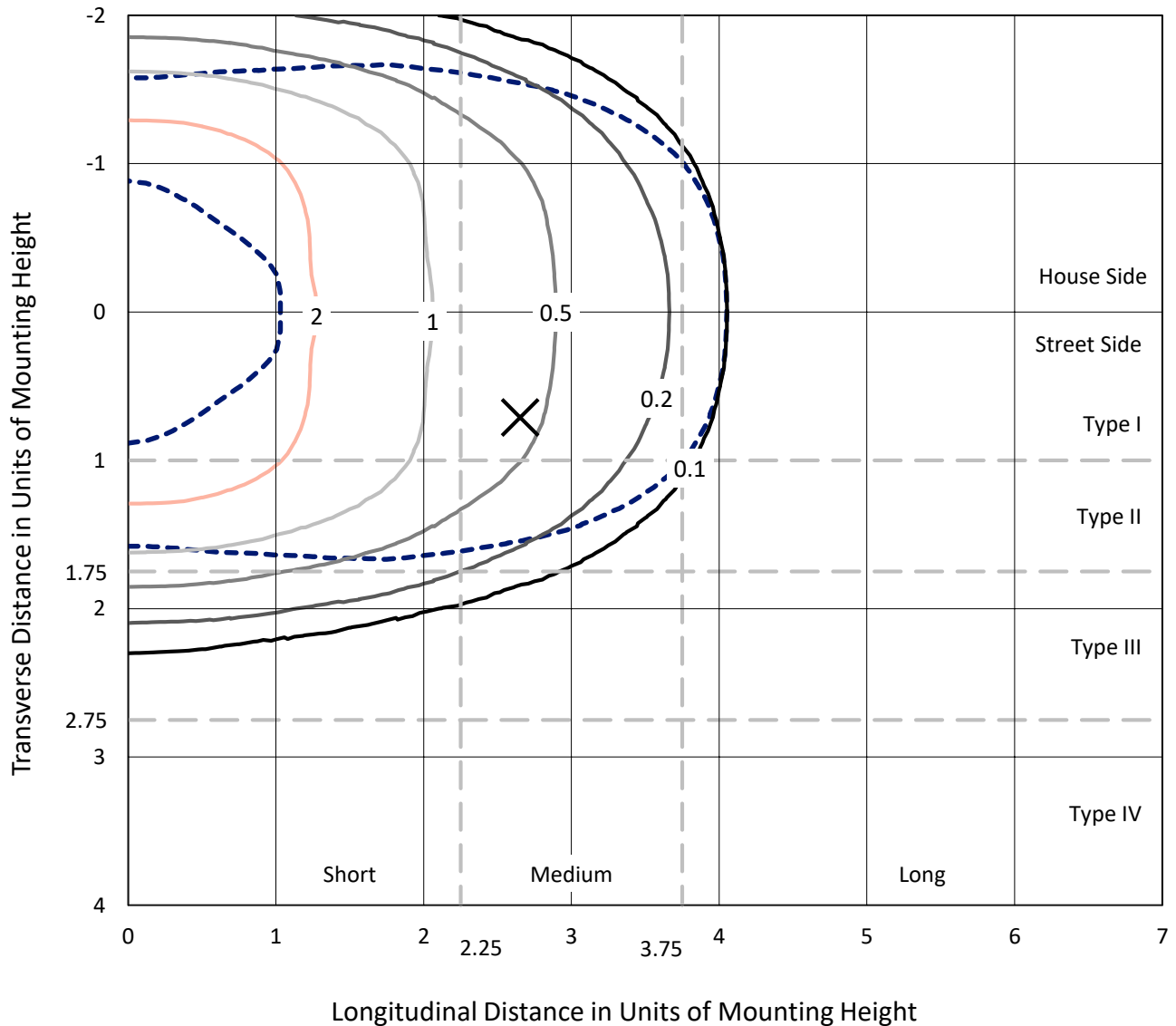


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Iso-Footcandle Lines of Horizontal Illumination

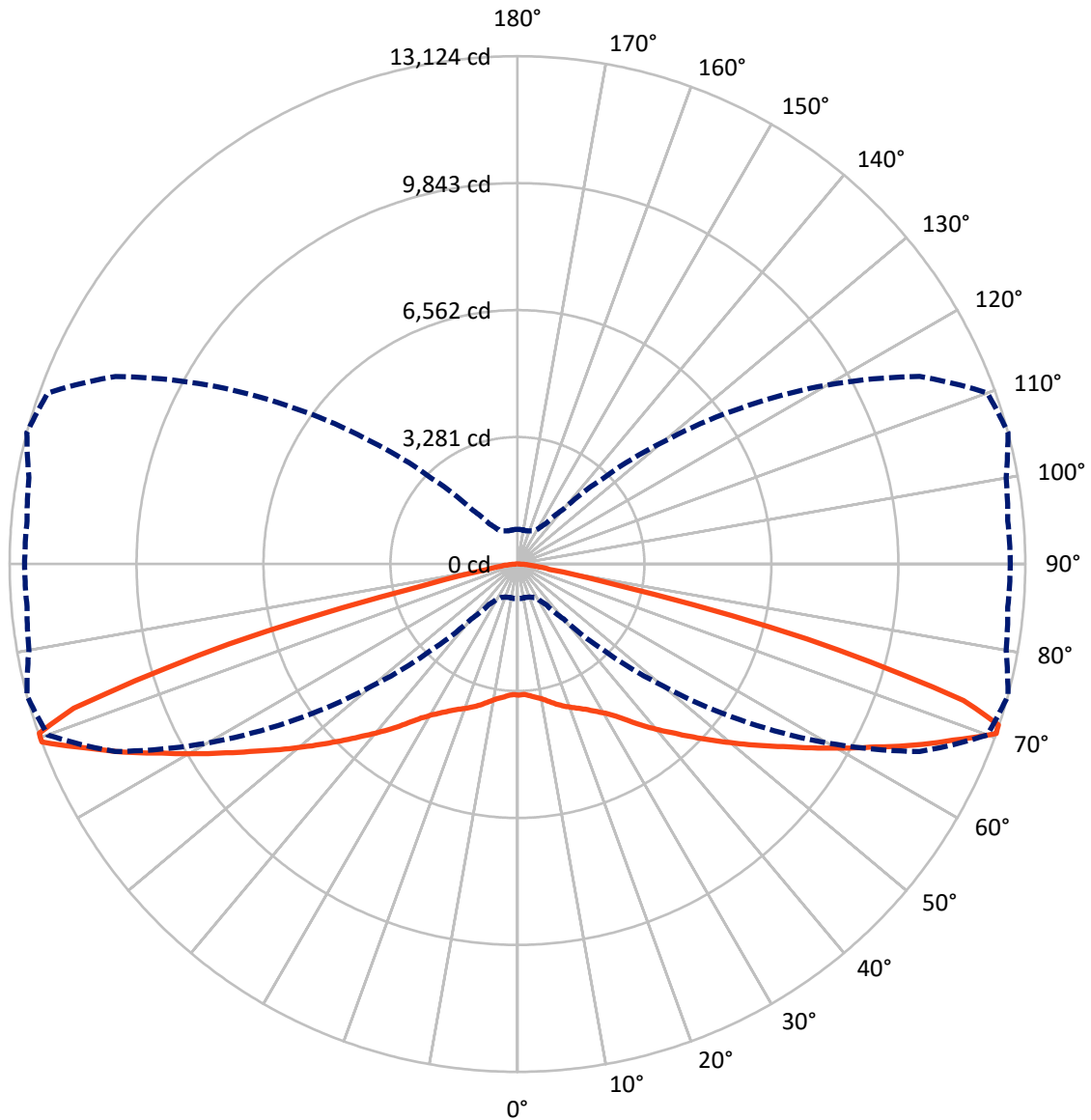
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15211.3	0.0	15211.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15211.3	0.0	15211.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	30422.6	0.0	30422.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.0	1.1
10°-20°	1007.8	3.3
20°-30°	1892.8	6.2
30°-40°	3334.2	11.0
40°-50°	5525.9	18.2
50°-60°	7687.4	25.3
60°-70°	7257.0	23.9
70°-80°	3099.5	10.2
80°-90°	292.9	1.0
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°	30422.6	100.0
0°-180°	30422.6	100.0

Coefficient of Utilization



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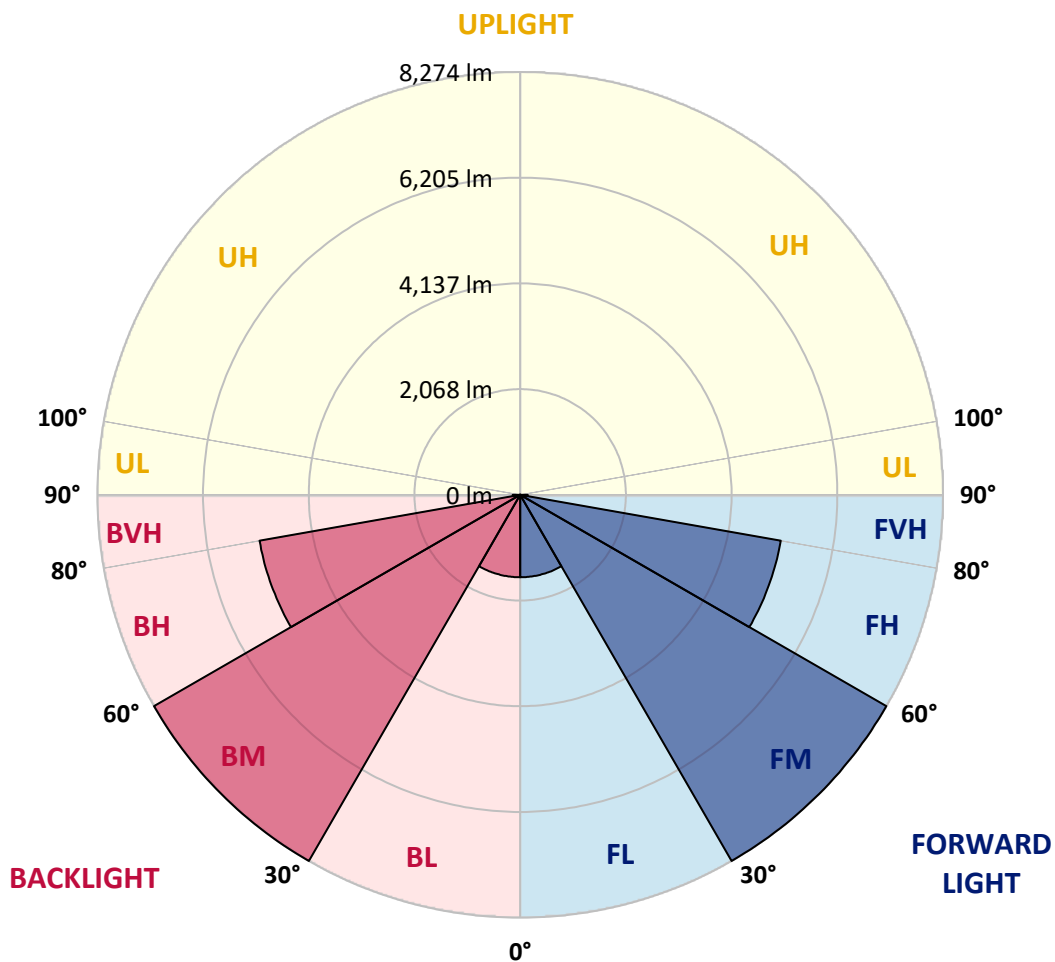
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1612.8	5.3			
FM	(30°-60°)	8273.8	27.2			
FH	(60°-80°)	5178.3	17.0			G3/7500
FVH	(80°-90°)	146.4	0.5			G2/225
BL	(0°-30°)	1612.8	5.3	B3/2500		
BM	(30°-60°)	8273.8	27.2	B4/8500		
BH	(60°-80°)	5178.3	17.0	B5		G3/7500
BVH	(80°-90°)	146.4	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8
2.5°	3408.8	3406.9	3408.8	3403.1	3405.0	3403.1	3403.1	3395.5	3395.5	3391.7	3386.0
5°	3370.7	3374.5	3374.5	3374.5	3380.2	3380.2	3387.8	3389.8	3395.5	3401.2	3405.0
7.5°	3307.8	3309.7	3315.4	3319.2	3330.6	3345.9	3361.1	3378.3	3393.5	3412.7	3433.6
10°	3254.4	3258.2	3267.7	3277.2	3298.2	3317.3	3344.0	3370.7	3397.4	3429.7	3462.2
12.5°	3225.8	3231.5	3246.7	3262.0	3294.4	3319.2	3355.5	3397.4	3433.6	3464.1	3500.3
15°	3229.6	3231.5	3252.5	3273.4	3319.2	3353.5	3405.0	3454.6	3498.4	3532.8	3574.7
17.5°	3284.9	3288.7	3309.7	3340.1	3384.0	3427.9	3483.1	3534.6	3593.7	3633.8	3683.3
20°	3393.5	3399.3	3422.2	3454.6	3502.3	3548.0	3605.2	3658.6	3719.6	3767.2	3816.8
22.5°	3534.6	3544.2	3569.0	3609.0	3656.6	3712.0	3771.0	3826.3	3883.5	3931.2	3973.1
25°	3723.4	3734.8	3761.5	3801.6	3849.3	3908.3	3969.4	4026.5	4085.7	4121.9	4156.1
27.5°	3976.9	3996.1	4024.6	4057.0	4099.0	4161.9	4219.1	4266.7	4323.9	4364.0	4386.8
30°	4318.2	4344.9	4367.8	4402.1	4432.7	4499.3	4545.1	4583.2	4627.1	4649.9	4655.7
32.5°	4735.8	4760.5	4783.4	4808.2	4850.1	4911.2	4955.0	4975.9	4998.9	4995.1	4974.1
35°	5206.6	5225.7	5239.0	5282.9	5351.6	5391.6	5424.0	5431.7	5435.4	5395.3	5355.4
37.5°	5702.3	5725.3	5736.6	5805.2	5870.1	5915.8	5931.1	5948.3	5936.8	5870.1	5797.7
40°	6238.1	6262.8	6297.2	6356.3	6432.5	6476.4	6495.4	6493.5	6484.0	6405.8	6287.7
42.5°	6764.3	6794.7	6823.4	6926.3	6989.2	7063.6	7073.1	7071.2	7050.3	6960.7	6823.4
45°	7210.4	7246.6	7305.7	7420.1	7521.1	7610.8	7647.0	7660.3	7639.3	7544.1	7387.6
47.5°	7578.3	7603.1	7677.5	7816.7	7946.3	8077.8	8150.3	8201.7	8199.9	8131.2	7965.3
50°	7830.0	7858.6	7950.1	8106.5	8268.5	8422.9	8565.9	8682.2	8737.5	8687.9	8533.5
52.5°	7902.4	7938.7	8058.8	8245.6	8434.3	8642.2	8855.7	9061.6	9185.5	9216.0	9095.9
55°	7597.4	7637.5	7812.8	8072.1	8382.9	8689.9	9013.9	9307.5	9563.0	9681.2	9633.5
57.5°	6708.9	6737.6	6960.7	7296.2	7740.4	8280.0	8825.2	9362.9	9801.3	10108.3	10161.7
60°	5305.7	5342.1	5586.0	5940.7	6445.9	7128.4	7891.0	8771.8	9631.6	10335.2	10684.0
62.5°	3580.4	3605.2	3839.6	4163.8	4716.7	5374.4	6224.8	7340.0	8565.9	9822.3	10806.0
65°	1879.8	1879.8	2038.0	2264.9	2705.3	3294.4	4165.7	5309.6	6768.0	8337.2	9982.5
67.5°	1090.6	1088.6	1124.8	1176.3	1315.5	1553.8	2034.2	2875.0	4255.3	6081.7	7954.0
70°	899.9	894.2	888.4	888.4	909.4	945.6	1037.2	1267.8	1855.0	3136.2	4894.0
71°	859.8	856.0	840.8	835.0	844.5	863.7	903.7	1010.5	1317.4	2139.1	3654.8
72.5°	812.1	802.6	779.8	770.2	772.1	779.8	791.2	833.1	926.6	1216.4	2083.9
75°	739.7	716.9	688.2	674.9	669.2	667.3	667.3	678.7	699.7	734.0	854.1
77.5°	655.8	623.4	592.9	579.6	570.1	564.4	560.5	552.9	549.1	564.4	608.1
80°	554.7	520.5	495.7	488.0	482.3	470.9	455.6	440.4	430.9	438.5	465.1
82.5°	428.9	394.7	398.4	400.4	390.9	371.7	356.5	339.3	322.2	318.3	331.7
85°	341.3	324.1	312.7	337.5	316.5	293.6	272.6	244.1	204.0	167.8	183.0
87.5°	146.8	148.7	213.5	322.2	282.1	226.9	188.7	152.5	97.2	72.4	74.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8	3387.8
2.5°	3384.0	3384.0	3378.3	3374.5	3374.5	3374.5	3370.7	3372.6
5°	3406.9	3410.7	3414.5	3412.7	3418.4	3424.0	3422.2	3420.2
7.5°	3445.1	3456.4	3467.9	3473.6	3481.3	3488.9	3490.8	3485.1
10°	3483.1	3506.1	3523.2	3538.5	3548.0	3555.6	3561.3	3559.5
12.5°	3530.8	3563.2	3593.7	3624.2	3645.2	3656.6	3668.1	3664.3
15°	3609.0	3645.2	3683.3	3723.4	3755.8	3772.9	3790.1	3786.4
17.5°	3715.8	3748.2	3778.7	3818.7	3858.8	3877.8	3896.9	3895.0
20°	3849.3	3874.0	3891.2	3914.0	3952.2	3973.1	3990.3	3984.6
22.5°	4001.8	4009.4	4011.3	4018.9	4049.5	4074.2	4097.0	4102.7
25°	4167.6	4161.9	4150.4	4144.7	4165.7	4192.4	4221.0	4228.6
27.5°	4373.5	4354.4	4325.9	4302.9	4308.7	4343.0	4375.4	4383.0
30°	4632.8	4589.0	4527.9	4484.1	4476.4	4512.6	4547.0	4558.5
32.5°	4928.3	4869.2	4785.3	4718.6	4690.0	4722.4	4752.9	4770.0
35°	5279.1	5214.3	5113.2	5027.4	4981.7	5002.6	5056.0	5075.1
37.5°	5694.7	5605.2	5492.6	5384.0	5307.7	5311.5	5368.7	5391.6
40°	6154.2	6024.6	5881.6	5746.2	5635.6	5628.0	5679.4	5696.6
42.5°	6632.7	6466.9	6299.0	6121.7	5984.5	5959.7	6026.4	6028.4
45°	7147.5	6934.0	6726.1	6520.2	6377.3	6333.4	6398.3	6405.8
47.5°	7696.6	7429.6	7183.7	6960.7	6806.2	6737.6	6800.5	6811.9
50°	8268.5	7992.0	7706.1	7458.2	7277.1	7193.2	7267.6	7275.2
52.5°	8834.7	8573.6	8289.5	8005.4	7786.2	7690.9	7778.5	7805.2
55°	9404.8	9153.1	8886.2	8602.1	8325.7	8241.8	8337.2	8365.7
57.5°	9997.7	9755.6	9513.4	9227.4	8958.6	8830.9	8933.8	8973.9
60°	10651.6	10438.1	10209.3	9921.4	9656.5	9507.7	9595.4	9641.2
62.5°	11294.1	11250.2	11042.4	10743.1	10407.6	10258.9	10333.2	10365.7
65°	11347.5	12058.6	12049.0	11751.7	11282.6	11032.9	11053.9	11069.1
67.5°	9904.3	11536.2	12579.1	12672.5	12150.1	11759.3	11713.5	11723.0
70°	7012.1	9252.3	11465.6	12918.4	13124.4	12821.2	12722.0	12737.3
71°	5618.5	7938.7	10375.2	12329.3	13109.1	13021.3	12966.1	13006.1
72.5°	3586.2	5849.1	8220.8	10558.2	12054.8	12483.8	12546.7	12571.5
75°	1302.1	2516.6	4259.2	6102.7	7734.6	8857.6	9475.3	9524.9
77.5°	699.7	901.7	1393.7	2081.9	2615.7	2901.7	2936.0	2949.4
80°	514.7	596.7	682.5	779.8	840.8	852.2	831.2	787.4
82.5°	364.2	411.8	446.1	480.5	505.2	484.3	402.2	307.0
85°	211.6	232.6	251.6	268.8	272.6	257.4	169.7	139.2
87.5°	83.9	91.6	89.6	101.1	97.2	89.6	66.7	57.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)