

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: P885186

Luminaire Tested: **NVN-SB6B-835-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P885186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-835-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21058 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

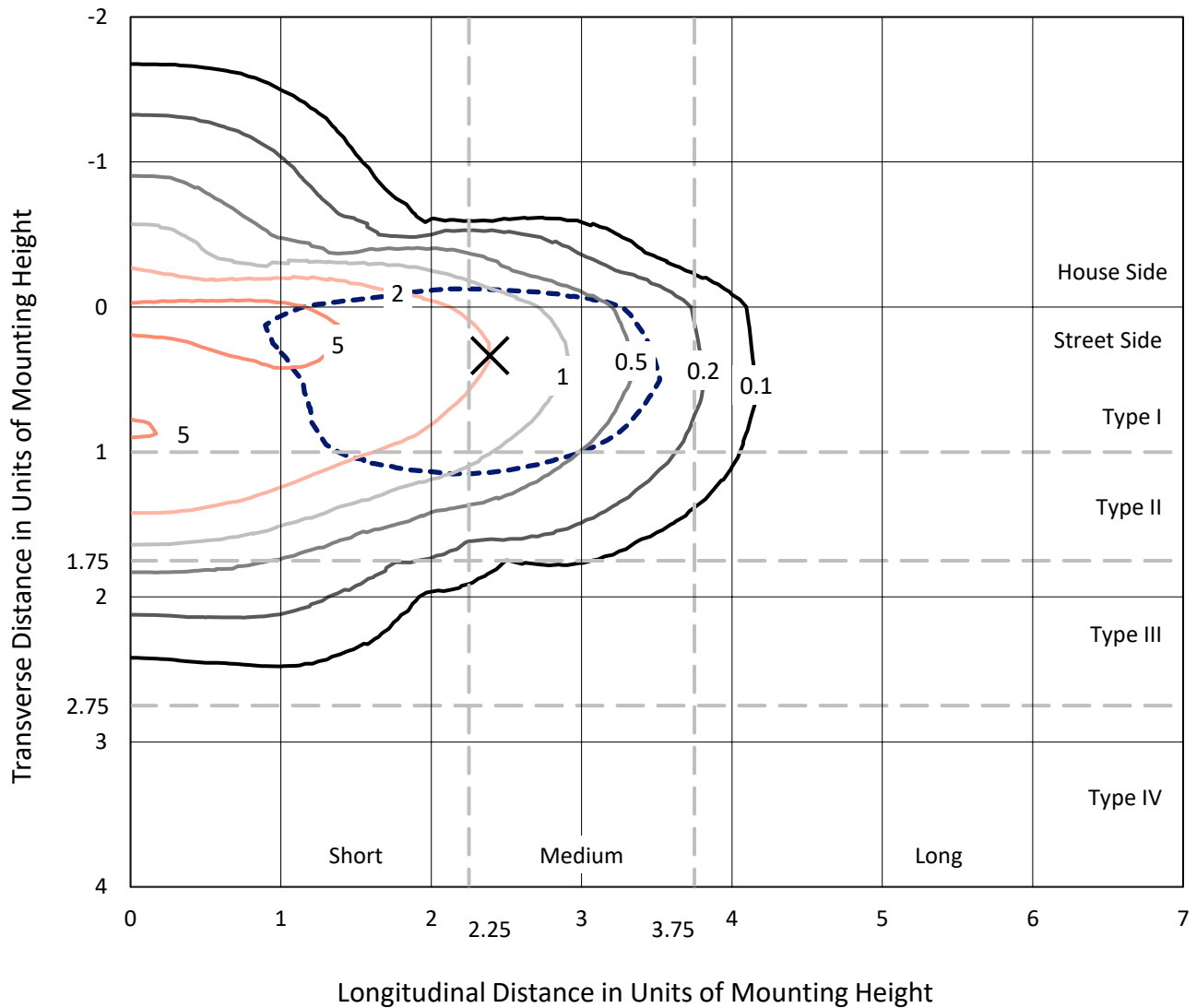
Input Watts (W): 220.4
Input Voltage (V): 120.0
Input Current (Ain): 1.838
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

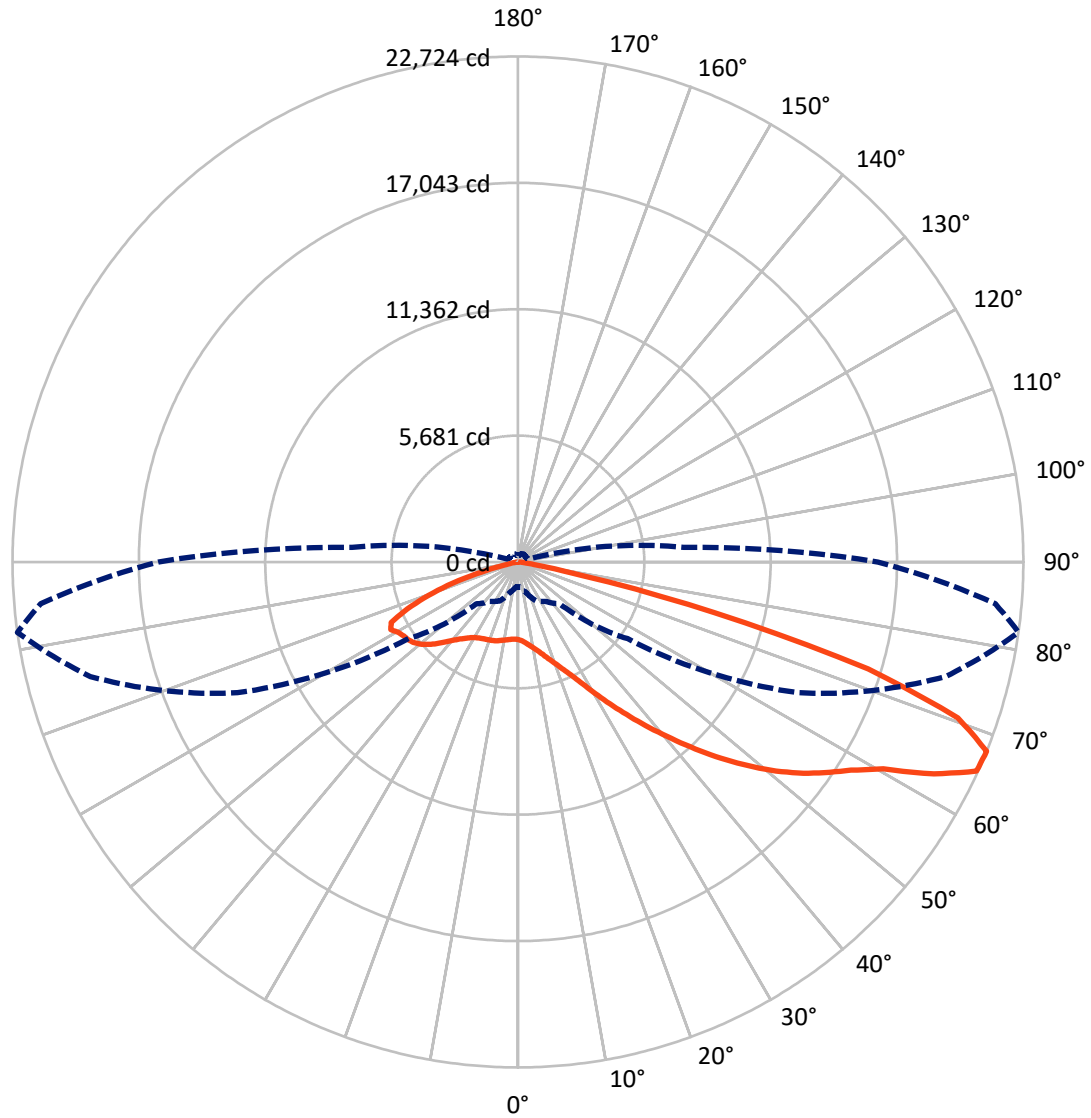
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3814.5	0.0	3814.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17243.5	0.0	17243.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	21058.0	0.0	21058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	310.8	1.5
10°-20°	807.7	3.8
20°-30°	1293.6	6.1
30°-40°	2287.5	10.9
40°-50°	4008.0	19.0
50°-60°	5345.5	25.4
60°-70°	4976.4	23.6
70°-80°	1909.9	9.1
80°-90°	118.6	0.6
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°	21058.0	100.0
0°-180°	21058.0	100.0

Coefficient of Utilization



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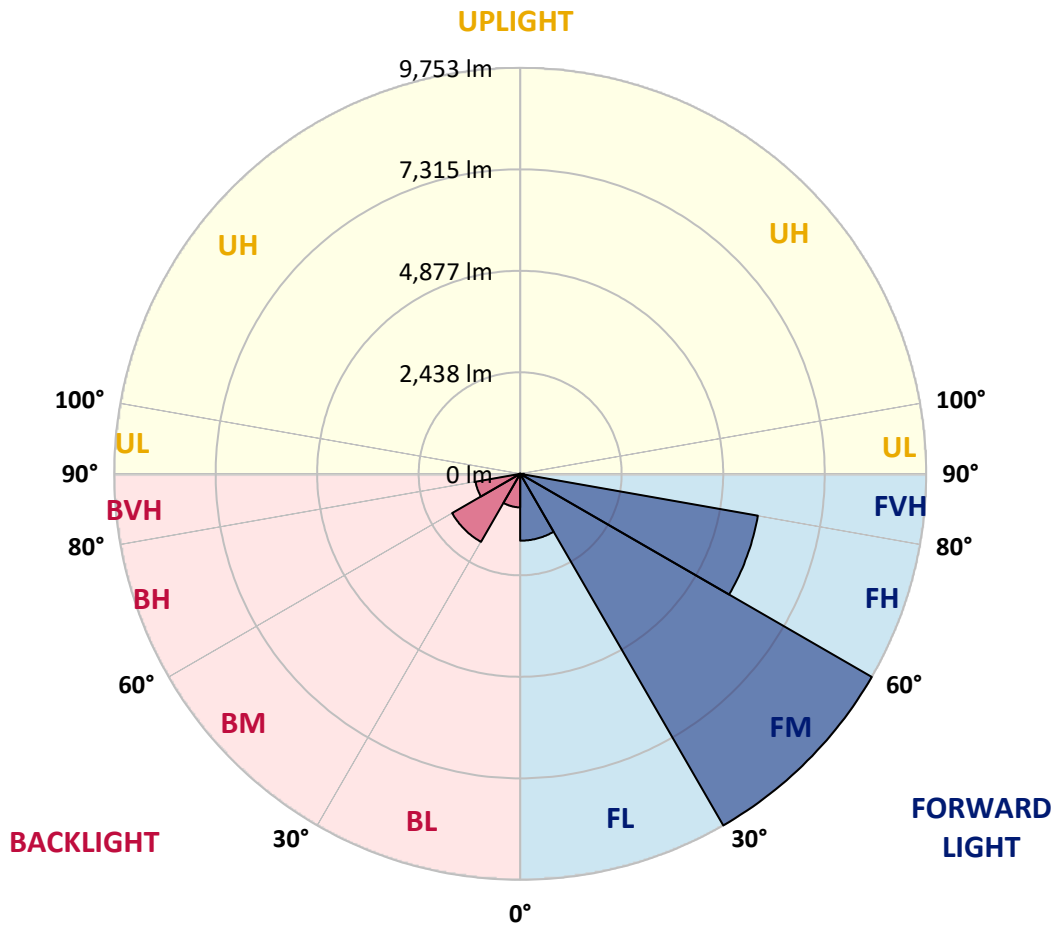
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1606.5	7.6			
FM (30°-60°)	9753.2	46.3			
FH (60°-80°)	5797.6	27.5			G3/7500
FVH (80°-90°)	86.2	0.4			G1/100
BL (0°-30°)	805.6	3.8	B2/1000		
BM (30°-60°)	1887.8	9.0	B2/2500		
BH (60°-80°)	1088.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	32.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6
2.5°	3687.2	3708.4	3696.3	3690.2	3679.6	3664.5	3652.3	3614.4	3575.0	3549.2	3540.1
5°	3761.5	3782.7	3781.2	3787.3	3794.9	3799.4	3796.4	3753.9	3697.8	3653.9	3628.1
7.5°	3697.8	3722.1	3741.8	3772.1	3825.2	3881.3	3908.6	3899.5	3841.9	3781.2	3749.4
10°	3517.4	3543.2	3590.2	3661.4	3773.6	3894.9	3996.5	4043.5	4007.1	3940.4	3896.4
12.5°	3186.9	3212.7	3305.1	3459.8	3647.8	3858.5	4052.6	4178.4	4187.5	4120.8	4069.3
15°	2815.4	2841.2	2939.8	3133.8	3420.4	3758.5	4082.9	4320.9	4401.3	4343.7	4281.5
17.5°	2585.0	2607.7	2682.0	2838.2	3136.9	3558.3	4072.3	4472.6	4656.0	4610.5	4536.2
20°	2515.2	2535.0	2569.8	2679.0	2927.6	3350.6	4002.6	4615.1	4930.4	4904.7	4821.3
22.5°	2589.5	2607.7	2618.3	2666.9	2823.0	3214.2	3914.6	4760.6	5248.8	5251.8	5150.3
25°	2760.9	2779.1	2766.9	2797.2	2865.5	3171.7	3881.3	4931.9	5649.1	5682.4	5567.2
27.5°	3042.9	3044.4	3015.6	3014.1	3024.7	3235.4	3916.1	5115.4	6153.9	6216.1	6073.6
30°	3608.4	3585.6	3475.0	3355.2	3300.6	3426.4	4013.2	5332.2	6749.8	6860.5	6681.6
32.5°	4480.1	4446.8	4243.6	3957.1	3669.0	3734.2	4187.5	5579.3	7398.7	7598.8	7380.5
35°	5426.2	5417.1	5204.8	4778.8	4275.5	4172.4	4471.0	5903.8	8106.7	8425.1	8165.8
37.5°	6305.6	6301.0	6179.7	5677.9	5065.4	4783.4	4925.9	6328.3	8864.8	9325.7	9019.4
40°	7109.1	7122.7	7001.5	6552.7	5935.6	5567.2	5544.5	6852.9	9707.7	10306.6	9942.7
42.5°	7803.5	7818.6	7695.8	7363.8	6795.3	6434.4	6304.0	7495.7	10531.0	11360.3	10929.7
45°	8275.0	8369.0	8350.8	8085.5	7677.6	7303.2	7216.7	8302.3	11469.5	12477.7	11972.8
47.5°	8408.4	8494.8	8631.3	8667.7	8419.0	8050.6	8153.7	9274.1	12418.6	13596.6	13022.0
50°	8079.4	8159.8	8443.3	8820.8	8993.6	8879.9	9064.9	10315.7	13390.4	14712.5	14051.4
52.5°	7430.5	7512.4	7870.2	8467.5	9172.5	9530.3	9979.1	11342.1	14331.9	15769.2	15026.3
55°	6492.0	6578.5	7037.8	7714.0	8831.4	9798.7	10741.7	12367.0	15194.6	16719.8	15905.6
57.5°	5215.5	5279.1	5756.7	6702.8	7973.3	9531.9	11304.2	13485.9	16007.2	17653.7	16777.4
60°	3399.1	3455.2	4010.1	5065.4	6551.2	8640.4	11416.4	14733.7	17086.7	18868.1	17952.4
62.5°	2260.5	2298.4	2627.4	3402.2	4613.6	6928.7	10759.9	15729.8	18669.5	20981.6	19967.3
65°	1551.0	1588.9	1917.9	2457.6	2980.7	4583.2	8872.3	15597.9	20103.8	22660.0	21460.7
67.5°	1106.8	1138.6	1417.6	1927.0	2157.4	2662.3	6014.5	13911.9	19897.6	22723.6	21541.1
70°	792.9	811.1	1041.6	1501.0	1714.7	1599.5	3344.6	10640.1	17421.8	20983.1	19900.6
72.5°	554.9	561.0	723.2	1143.2	1381.2	1167.4	1591.9	7093.9	13176.6	16469.6	15428.1
75°	376.0	383.6	486.7	838.4	1108.3	891.5	843.0	3804.0	7735.3	9116.4	8171.9
77.5°	230.5	233.5	313.8	573.1	829.3	679.2	542.8	1611.6	2992.8	2938.2	2504.6
80°	130.4	130.4	200.1	356.3	565.5	438.2	380.5	685.3	947.6	832.4	733.8
82.5°	72.8	74.3	145.5	221.4	374.5	259.3	209.2	316.9	409.4	362.4	315.4
85°	30.3	33.4	89.5	104.6	178.9	128.9	84.9	133.4	151.6	134.9	98.5
87.5°	3.0	4.5	27.3	19.7	21.2	25.8	12.1	25.8	21.2	21.2	15.2
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°	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6	3488.6
2.5°	3511.3	3488.6	3431.0	3364.3	3276.3	3233.9	3176.3	3136.9	3103.5	3106.5	3076.2
5°	3579.6	3522.0	3393.1	3232.4	3032.2	2889.7	2738.1	2633.5	2548.6	2530.4	2489.5
7.5°	3673.6	3582.6	3356.7	3067.1	2729.0	2472.8	2243.9	2096.8	1992.2	1958.8	1925.5
10°	3794.9	3663.0	3309.7	2859.4	2372.7	2046.8	1801.2	1685.9	1614.7	1590.4	1572.2
12.5°	3935.9	3755.4	3247.5	2606.2	2005.8	1692.0	1535.8	1478.2	1455.5	1447.9	1443.3
15°	4113.2	3870.7	3153.5	2306.0	1695.0	1475.2	1408.5	1400.9	1403.9	1400.9	1399.4
17.5°	4324.0	3996.5	3000.4	1996.7	1485.8	1364.5	1340.3	1346.3	1353.9	1352.4	1349.3
20°	4554.4	4120.8	2804.8	1722.3	1343.3	1285.7	1272.0	1278.1	1284.2	1281.1	1279.6
22.5°	4816.7	4254.2	2588.0	1508.5	1247.8	1212.9	1197.7	1199.3	1199.3	1193.2	1190.2
25°	5130.6	4401.3	2360.6	1356.9	1175.0	1147.7	1129.5	1123.4	1114.4	1096.2	1093.1
27.5°	5505.0	4557.5	2142.3	1250.8	1117.4	1091.6	1070.4	1055.2	1032.5	1002.2	999.1
30°	5926.5	4747.0	1957.3	1184.1	1071.9	1046.1	1021.9	999.1	965.8	927.9	924.8
32.5°	6422.3	4950.1	1822.4	1140.1	1031.0	1003.7	974.9	947.6	911.2	873.3	874.8
35°	7013.6	5195.8	1743.5	1109.8	999.1	962.7	930.9	900.6	873.3	839.9	836.9
37.5°	7654.9	5456.5	1719.3	1094.6	977.9	921.8	885.4	864.2	861.2	841.4	839.9
40°	8356.9	5765.8	1737.5	1085.5	955.2	882.4	843.0	838.4	846.0	811.1	812.6
42.5°	9099.8	6132.7	1767.8	1074.9	923.3	843.0	805.1	805.1	799.0	750.5	750.5
45°	9903.3	6555.7	1798.1	1049.2	885.4	803.5	774.7	764.1	738.4	691.4	689.8
47.5°	10712.9	6986.3	1820.9	1002.2	839.9	770.2	744.4	720.2	682.3	639.8	638.3
50°	11481.6	7372.9	1796.6	932.4	788.4	738.4	711.1	677.7	636.8	608.0	603.4
52.5°	12168.4	7708.0	1693.5	850.5	733.8	705.0	680.7	645.9	612.5	582.2	579.2
55°	12765.8	7979.4	1511.6	773.2	685.3	676.2	651.9	608.0	562.5	536.7	533.7
57.5°	13338.8	8185.5	1284.2	709.5	641.3	644.4	608.0	568.5	526.1	498.8	495.8
60°	14101.5	8461.5	1053.7	650.4	594.3	603.4	564.0	535.2	482.1	447.3	442.7
62.5°	15320.4	8890.5	836.9	577.6	539.7	542.8	526.1	491.2	427.5	386.6	383.6
65°	16287.7	8732.9	659.5	498.8	477.6	482.1	482.1	444.2	376.0	329.0	324.5
67.5°	16178.5	7477.5	526.1	421.5	418.4	421.5	432.1	400.3	333.5	295.6	289.6
70°	14903.5	5947.7	421.5	350.2	363.9	356.3	386.6	365.4	300.2	262.3	257.7
72.5°	12160.8	4284.6	321.4	289.6	279.0	291.1	348.7	329.0	250.2	207.7	203.2
75°	7106.1	2286.3	239.5	228.9	201.6	242.6	309.3	280.5	191.0	153.1	148.6
77.5°	2313.6	797.5	175.9	168.3	150.1	195.6	263.8	236.5	156.2	121.3	116.7
80°	620.1	241.1	119.8	110.7	97.0	145.5	209.2	188.0	112.2	78.8	77.3
82.5°	248.6	101.6	69.7	62.2	53.1	100.1	165.3	151.6	83.4	50.0	50.0
85°	80.4	33.4	25.8	19.7	24.3	62.2	98.5	103.1	59.1	25.8	19.7
87.5°	10.6	4.5	4.5	6.1	4.5	10.6	30.3	28.8	16.7	3.0	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)