

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: P884436

Luminaire Tested: **NVN-SB5B-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P884436
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-SB5B-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 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: 20539 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

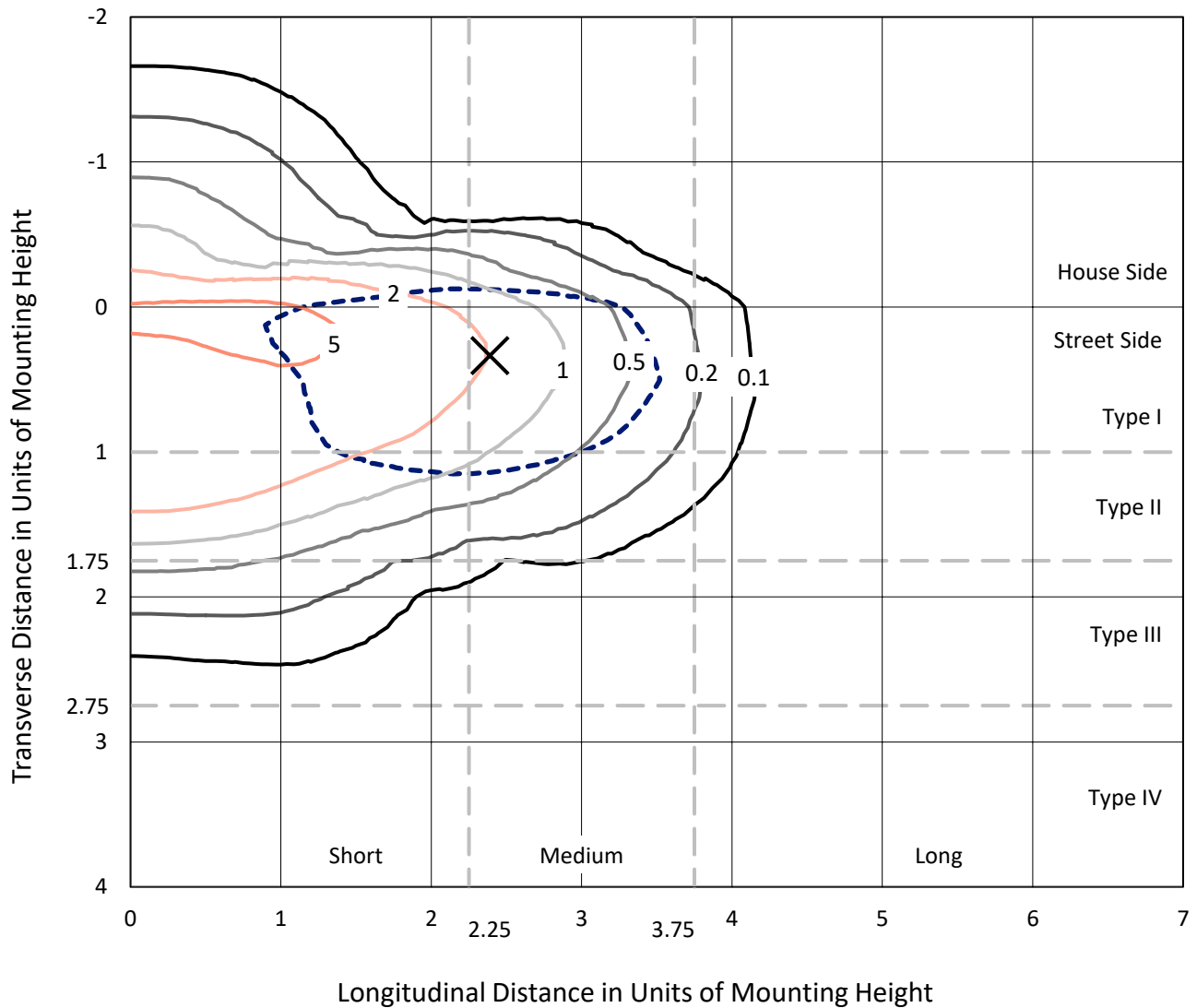
Input Watts (W): 182.7
Input Voltage (V): 120.0
Input Current (Ain): 1.547
Voltage Rise (V): NR
Power Factor: 0.992
Total Harmonic Distortion (THDi): 11.125
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

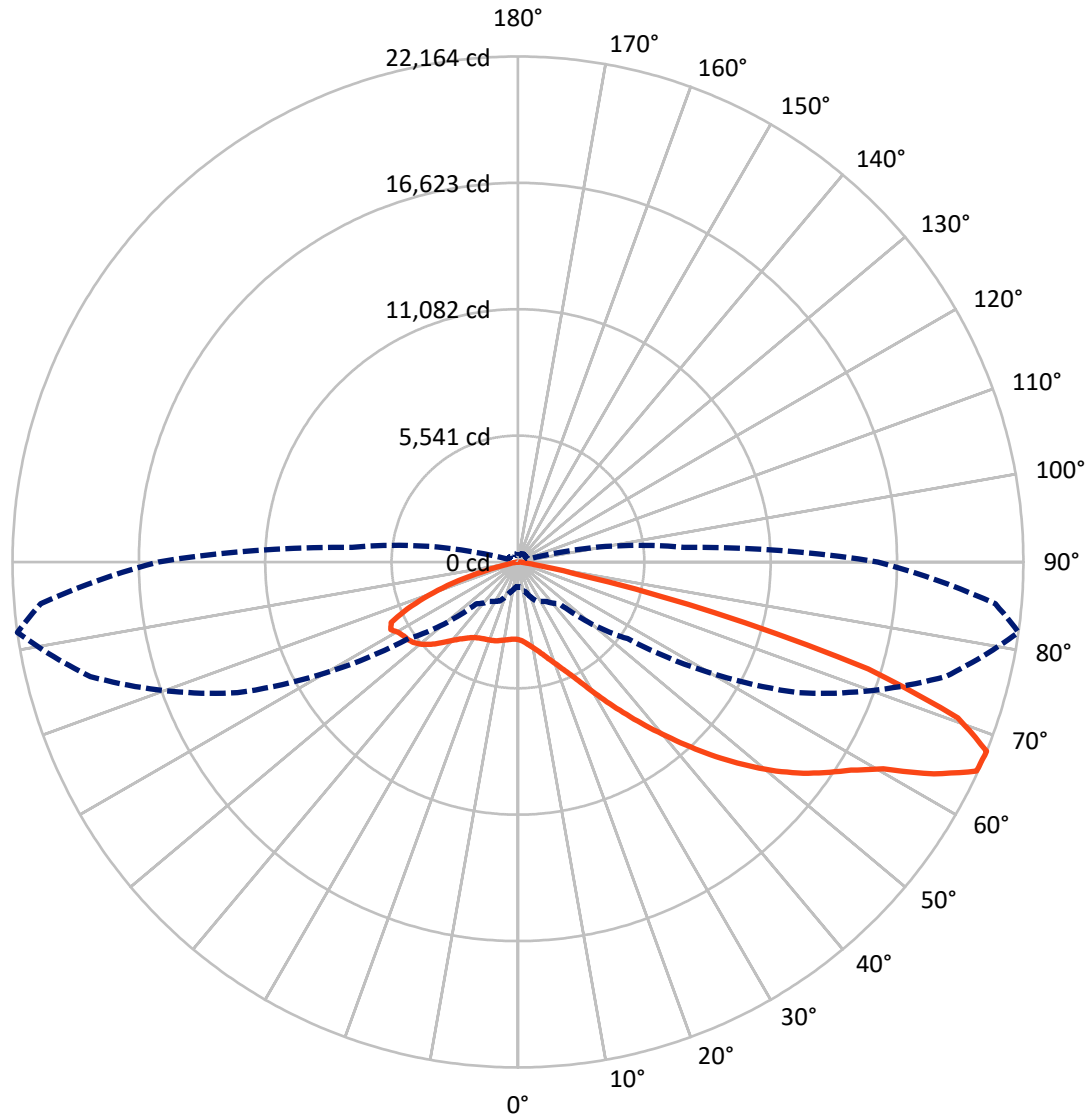
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	3720.5	0.0	3720.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	16818.5	0.0	16818.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	20539.0	0.0	20539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.1	1.5
10°-20°	787.8	3.8
20°-30°	1261.7	6.1
30°-40°	2231.1	10.9
40°-50°	3909.2	19.0
50°-60°	5213.7	25.4
60°-70°	4853.7	23.6
70°-80°	1862.9	9.1
80°-90°	115.7	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°	20539.0	100.0
0°-180°	20539.0	100.0

Coefficient of Utilization



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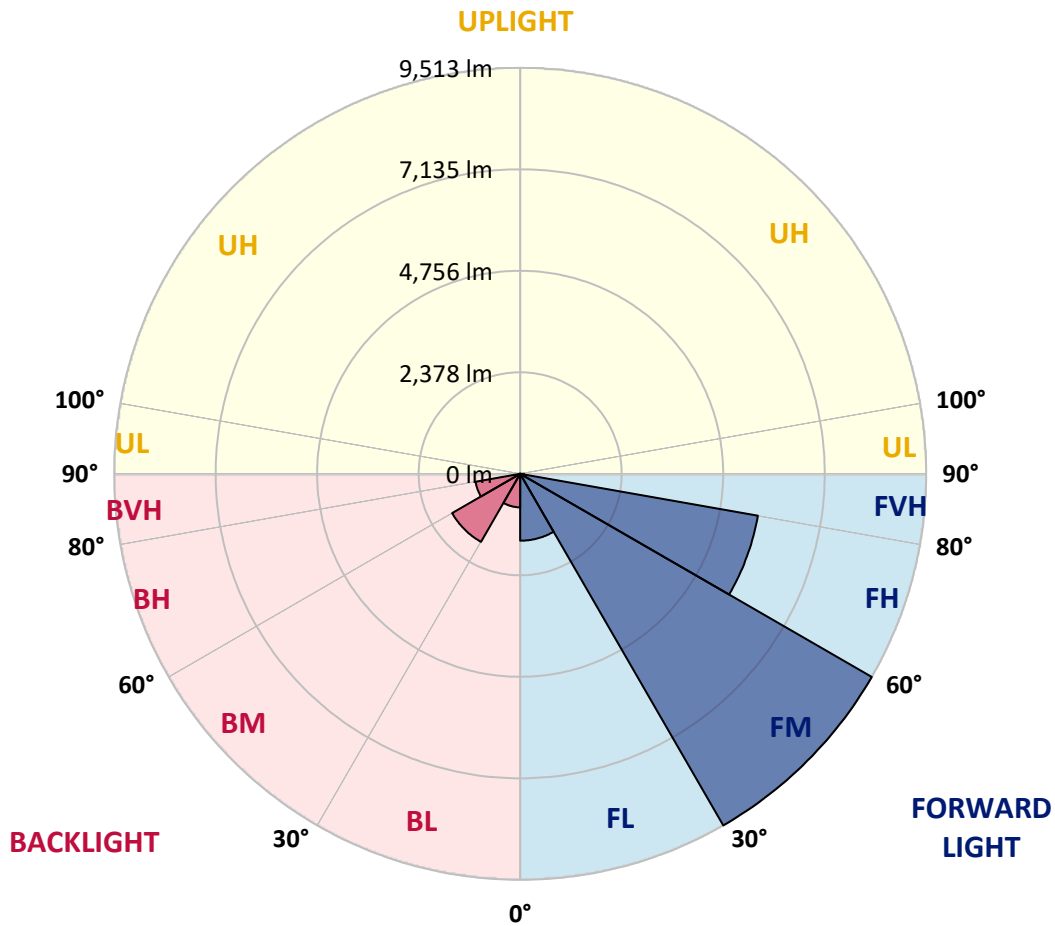
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1566.9	7.6			
FM (30°-60°)	9512.8	46.3			
FH (60°-80°)	5654.7	27.5			G3/7500
FVH (80°-90°)	84.1	0.4			G1/100
BL (0°-30°)	785.8	3.8	B2/1000		
BM (30°-60°)	1841.2	9.0	B2/2500		
BH (60°-80°)	1061.9	5.2	B3/2500		G3/2500
BVH (80°-90°)	31.6	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°	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6
2.5°	3596.3	3617.0	3605.2	3599.3	3588.9	3574.2	3562.3	3525.4	3486.9	3461.8	3452.9
5°	3668.8	3689.5	3688.0	3693.9	3701.3	3705.8	3702.8	3661.4	3606.7	3563.8	3538.7
7.5°	3606.7	3630.3	3649.6	3679.1	3730.9	3785.6	3812.2	3803.4	3747.2	3688.0	3657.0
10°	3430.7	3455.9	3501.7	3571.2	3680.6	3798.9	3898.0	3943.8	3908.4	3843.3	3800.4
12.5°	3108.3	3133.5	3223.7	3374.5	3557.9	3763.4	3952.7	4075.5	4084.3	4019.3	3969.0
15°	2746.0	2771.2	2867.3	3056.6	3336.1	3665.8	3982.3	4214.5	4292.8	4236.6	4176.0
17.5°	2521.3	2543.5	2615.9	2768.2	3059.5	3470.6	3971.9	4362.3	4541.3	4496.9	4424.4
20°	2453.3	2472.5	2506.5	2613.0	2855.5	3268.1	3903.9	4501.3	4808.9	4783.8	4702.4
22.5°	2525.7	2543.5	2553.8	2601.1	2753.4	3135.0	3818.1	4643.3	5119.5	5122.4	5023.3
25°	2692.8	2710.6	2698.7	2728.3	2794.8	3093.6	3785.6	4810.4	5509.8	5542.4	5430.0
27.5°	2967.9	2969.3	2941.2	2939.8	2950.1	3155.7	3819.6	4989.3	6002.3	6062.9	5923.9
30°	3519.4	3497.3	3389.3	3272.5	3219.3	3342.0	3914.3	5200.8	6583.4	6691.4	6516.9
32.5°	4369.7	4337.2	4139.0	3859.6	3578.6	3642.2	4084.3	5441.8	7216.3	7411.5	7198.6
35°	5292.5	5283.6	5076.6	4661.0	4170.1	4069.5	4360.9	5758.3	7906.9	8217.4	7964.6
37.5°	6150.1	6145.7	6027.4	5537.9	4940.5	4665.5	4804.5	6172.3	8646.3	9095.8	8797.1
40°	6933.9	6947.2	6828.9	6391.2	5789.3	5430.0	5407.8	6684.0	9468.5	10052.6	9697.7
42.5°	7611.2	7625.9	7506.2	7182.3	6627.8	6275.8	6148.7	7311.0	10271.4	11080.3	10660.4
45°	8071.0	8162.7	8145.0	7886.2	7488.4	7123.2	7038.9	8097.7	11186.8	12170.2	11677.7
47.5°	8201.2	8285.5	8418.6	8454.0	8211.5	7852.2	7952.7	9045.5	12112.5	13261.5	12701.0
50°	7880.3	7958.7	8235.2	8603.4	8772.0	8661.1	8841.5	10061.5	13060.4	14349.8	13705.1
52.5°	7247.4	7327.2	7676.2	8258.9	8946.5	9295.5	9733.2	11062.6	13978.7	15380.5	14655.9
55°	6332.0	6416.3	6864.4	7523.9	8613.8	9557.2	10477.0	12062.2	14820.1	16307.7	15513.6
57.5°	5086.9	5149.0	5614.8	6537.6	7776.8	9296.9	11025.6	13153.5	15612.7	17218.6	16363.9
60°	3315.4	3370.1	3911.3	4940.5	6389.7	8427.4	11135.0	14370.5	16665.6	18403.1	17509.9
62.5°	2204.8	2241.8	2562.7	3318.3	4499.9	6757.9	10494.7	15342.1	18209.4	20464.5	19475.2
65°	1512.8	1549.7	1870.6	2397.1	2907.2	4470.3	8653.7	15213.4	19608.3	22101.5	20931.8
67.5°	1079.5	1110.5	1382.6	1879.5	2104.3	2596.7	5866.2	13569.1	19407.2	22163.6	21010.2
70°	773.4	791.1	1015.9	1464.0	1672.5	1560.1	3262.1	10377.9	16992.4	20466.0	19410.1
72.5°	541.2	547.1	705.4	1115.0	1347.1	1138.6	1552.7	6919.1	12851.9	16063.7	15047.8
75°	366.7	374.1	474.7	817.8	1081.0	869.5	822.2	3710.2	7544.6	8891.8	7970.5
77.5°	224.8	227.7	306.1	559.0	808.9	662.5	529.4	1571.9	2919.1	2865.8	2442.9
80°	127.2	127.2	195.2	347.5	551.6	427.4	371.2	668.4	924.2	811.8	715.7
82.5°	71.0	72.5	142.0	215.9	365.3	252.9	204.1	309.1	399.3	353.4	307.6
85°	29.6	32.5	87.2	102.0	174.5	125.7	82.8	130.1	147.9	131.6	96.1
87.5°	3.0	4.4	26.6	19.2	20.7	25.1	11.8	25.1	20.7	20.7	14.8
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°	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6	3402.6
2.5°	3424.8	3402.6	3346.4	3281.4	3195.6	3154.2	3098.0	3059.5	3027.0	3030.0	3000.4
5°	3491.3	3435.1	3309.5	3152.7	2957.5	2818.5	2670.6	2568.6	2485.8	2468.0	2428.1
7.5°	3583.0	3494.3	3274.0	2991.5	2661.8	2411.9	2188.6	2045.1	1943.1	1910.6	1878.0
10°	3701.3	3572.7	3228.1	2788.9	2314.3	1996.3	1756.8	1644.4	1574.9	1551.2	1533.5
12.5°	3838.9	3662.9	3167.5	2542.0	1956.4	1650.3	1498.0	1441.8	1419.6	1412.2	1407.8
15°	4011.9	3775.3	3075.8	2249.2	1653.2	1438.8	1373.8	1366.4	1369.3	1366.4	1364.9
17.5°	4217.4	3898.0	2926.5	1947.5	1449.2	1330.9	1307.2	1313.1	1320.5	1319.1	1316.1
20°	4442.2	4019.3	2735.7	1679.9	1310.2	1254.0	1240.7	1246.6	1252.5	1249.5	1248.1
22.5°	4698.0	4149.4	2524.2	1471.4	1217.0	1183.0	1168.2	1169.7	1169.7	1163.8	1160.8
25°	5004.1	4292.8	2302.4	1323.5	1146.0	1119.4	1101.7	1095.8	1086.9	1069.1	1066.2
27.5°	5369.4	4445.1	2089.5	1220.0	1089.8	1064.7	1044.0	1029.2	1007.0	977.5	974.5
30°	5780.5	4630.0	1909.1	1154.9	1045.5	1020.3	996.7	974.5	942.0	905.0	902.0
32.5°	6264.0	4828.1	1777.5	1112.0	1005.6	978.9	950.8	924.2	888.7	851.8	853.2
35°	6840.7	5067.7	1700.6	1082.4	974.5	939.0	908.0	878.4	851.8	819.2	816.3
37.5°	7466.2	5322.0	1676.9	1067.7	953.8	899.1	863.6	842.9	839.9	820.7	819.2
40°	8150.9	5623.7	1694.7	1058.8	931.6	860.6	822.2	817.8	825.1	791.1	792.6
42.5°	8875.5	5981.6	1724.2	1048.4	900.6	822.2	785.2	785.2	779.3	732.0	732.0
45°	9659.2	6394.1	1753.8	1023.3	863.6	783.7	755.6	745.3	720.2	674.3	672.8
47.5°	10448.9	6814.1	1776.0	977.5	819.2	751.2	726.1	702.4	665.4	624.0	622.6
50°	11198.6	7191.2	1752.3	909.4	769.0	720.2	693.5	661.0	621.1	593.0	588.5
52.5°	11868.5	7518.0	1651.8	829.6	715.7	687.6	664.0	629.9	597.4	567.8	564.9
55°	12451.1	7782.7	1474.3	754.2	668.4	659.5	635.9	593.0	548.6	523.5	520.5
57.5°	13010.1	7983.8	1252.5	692.1	625.5	628.5	593.0	554.5	513.1	486.5	483.6
60°	13753.9	8252.9	1027.7	634.4	579.7	588.5	550.1	522.0	470.2	436.2	431.8
62.5°	14942.8	8671.4	816.3	563.4	526.4	529.4	513.1	479.1	417.0	377.1	374.1
65°	15886.3	8517.6	643.3	486.5	465.8	470.2	470.2	433.3	366.7	320.9	316.5
67.5°	15779.8	7293.2	513.1	411.1	408.1	411.1	421.4	390.4	325.3	288.4	282.4
70°	14536.2	5801.2	411.1	341.6	354.9	347.5	377.1	356.4	292.8	255.8	251.4
72.5°	11861.1	4179.0	313.5	282.4	272.1	283.9	340.1	320.9	244.0	202.6	198.2
75°	6930.9	2230.0	233.6	223.3	196.7	236.6	301.7	273.6	186.3	149.4	144.9
77.5°	2256.6	777.8	171.5	164.1	146.4	190.8	257.3	230.7	152.3	118.3	113.9
80°	604.8	235.1	116.8	107.9	94.6	142.0	204.1	183.4	109.4	76.9	75.4
82.5°	242.5	99.1	68.0	60.6	51.8	97.6	161.2	147.9	81.3	48.8	48.8
85°	78.4	32.5	25.1	19.2	23.7	60.6	96.1	100.6	57.7	25.1	19.2
87.5°	10.4	4.4	4.4	5.9	4.4	10.4	29.6	28.1	16.3	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)