

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: P960519

Luminaire Tested: **NVN-SB1C-830-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1C-830-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6886 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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: 24 FT

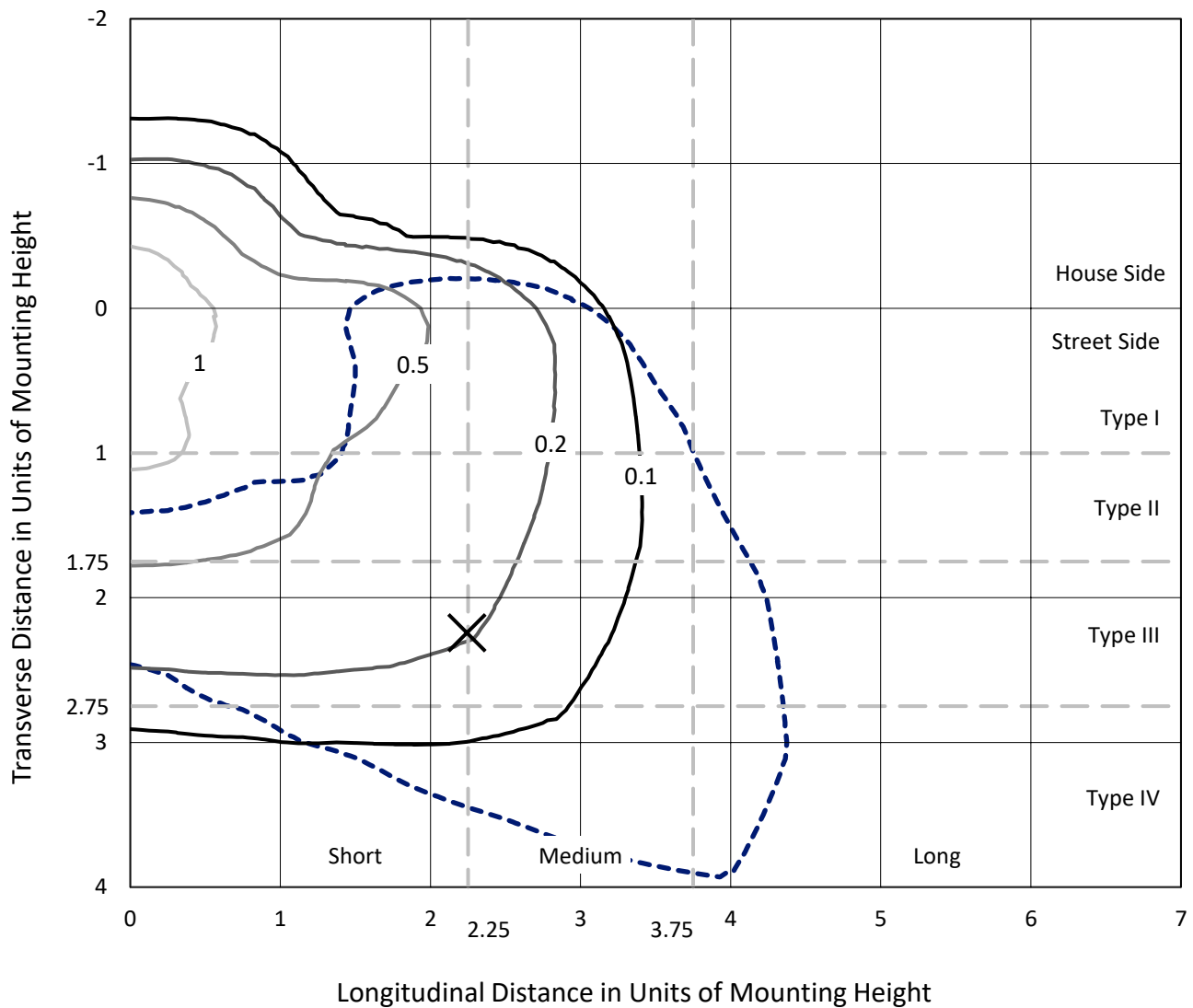


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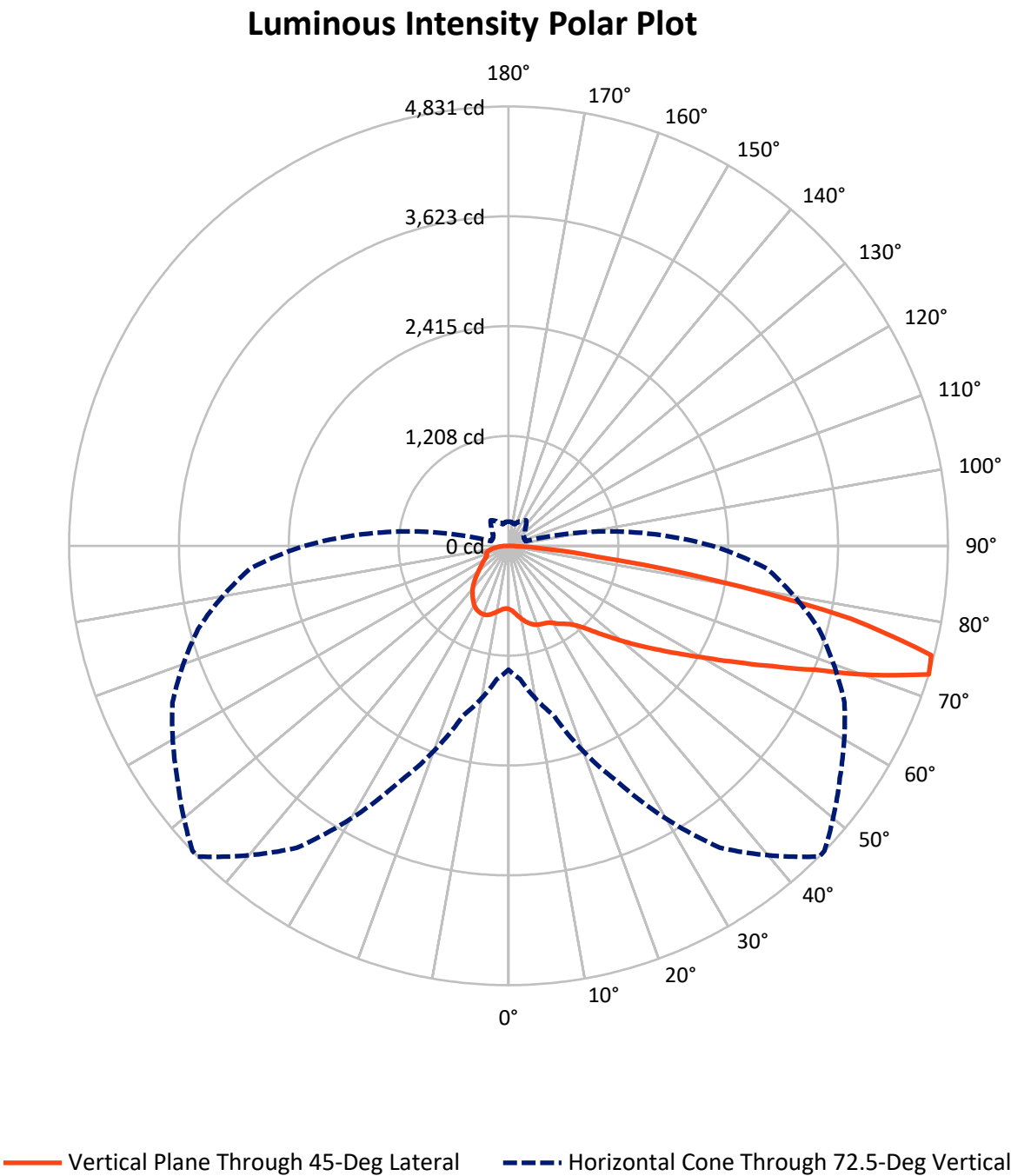
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1556.7	0.0	1556.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5329.3	0.0	5329.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	6886.0	0.0	6886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.0
10°-20°	235.7	3.4
20°-30°	410.1	6.0
30°-40°	587.9	8.5
40°-50°	827.7	12.0
50°-60°	1267.8	18.4
60°-70°	1836.7	26.7
70°-80°	1466.7	21.3
80°-90°	182.7	2.7
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°	6886.0	100.0
0°-180°	6886.0	100.0

Coefficient of Utilization



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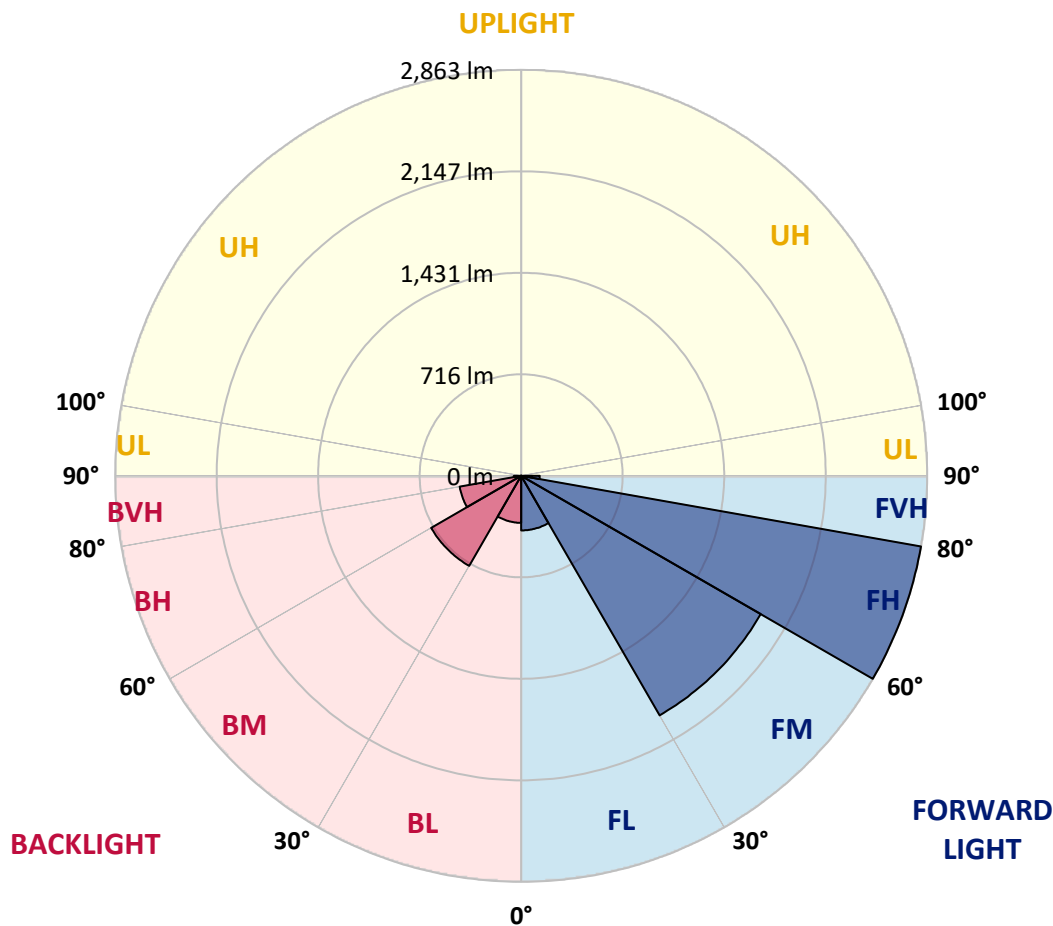
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	385.1	5.6			
FM	(30°-60°)	1950.5	28.3			
FH	(60°-80°)	2862.7	41.6			G2/5000
FVH	(80°-90°)	131.1	1.9			G2/225
BL	(0°-30°)	331.4	4.8	B1/500		
BM	(30°-60°)	733.0	10.6	B1/1000		
BH	(60°-80°)	440.7	6.4	B1/500		G1/500
BVH	(80°-90°)	51.6	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6
2.5°	721.9	726.6	722.2	718.2	716.4	711.7	711.3	708.5	706.6	701.5	700.1
5°	772.2	778.5	771.2	763.2	755.9	744.4	742.9	734.5	725.1	714.2	708.1
7.5°	829.2	834.7	826.4	814.4	801.7	782.5	782.1	766.8	751.9	733.5	722.9
10°	878.9	886.2	874.9	858.6	842.7	820.9	818.4	800.9	782.1	758.1	742.2
12.5°	922.8	927.9	917.1	897.1	878.5	856.8	853.5	834.4	813.2	786.1	765.8
15°	957.7	964.2	949.7	928.2	908.7	887.2	884.4	866.9	845.9	817.2	791.2
17.5°	980.5	985.9	971.1	947.1	928.2	910.5	908.4	893.8	875.4	846.2	818.4
20°	989.2	995.0	979.4	955.1	937.7	923.9	922.8	912.4	899.6	873.1	844.8
22.5°	997.9	1003.4	983.1	957.7	942.4	933.7	933.4	926.5	921.4	899.6	872.1
25°	1033.1	1034.5	1007.4	970.7	948.9	941.4	941.0	940.6	942.8	925.7	901.4
27.5°	1063.5	1063.2	1040.0	1005.5	971.8	955.8	955.5	959.1	966.0	951.8	931.9
30°	1108.2	1104.2	1076.7	1040.7	1009.9	985.2	983.1	979.8	985.2	974.0	962.4
32.5°	1202.8	1190.1	1145.5	1081.7	1041.4	1022.5	1019.7	999.4	1001.5	994.7	988.8
35°	1338.5	1321.8	1262.4	1159.4	1080.7	1053.8	1052.4	1026.5	1022.2	1016.1	1018.2
37.5°	1500.0	1479.3	1410.0	1271.8	1148.1	1090.1	1087.8	1064.7	1046.9	1040.4	1052.7
40°	1662.1	1636.0	1578.7	1408.9	1247.5	1150.7	1143.7	1108.5	1088.2	1077.4	1103.5
42.5°	1819.6	1797.7	1748.8	1562.7	1370.1	1239.1	1224.0	1163.7	1148.4	1138.3	1185.4
45°	1958.9	1939.2	1903.3	1727.0	1513.7	1359.6	1344.7	1246.4	1241.7	1241.7	1309.8
47.5°	2072.0	2067.6	2029.6	1894.6	1683.2	1496.7	1471.0	1361.4	1374.1	1393.7	1486.6
50°	2197.5	2185.5	2144.9	2059.6	1882.3	1653.7	1632.7	1502.4	1550.0	1603.7	1741.9
52.5°	2312.9	2319.4	2274.1	2231.6	2107.2	1829.0	1792.0	1669.0	1771.6	1860.5	2041.2
55°	2431.5	2431.8	2419.1	2413.4	2342.9	2022.6	1982.0	1869.2	2032.5	2142.8	2390.1
57.5°	2542.8	2543.5	2562.4	2613.5	2616.5	2246.1	2200.1	2115.2	2322.3	2434.8	2750.0
60°	2642.2	2647.4	2698.8	2818.5	2857.0	2502.2	2458.7	2405.8	2622.0	2735.1	3128.3
62.5°	2675.7	2694.1	2808.7	2978.9	3094.6	2816.4	2773.5	2742.0	2936.8	3042.0	3444.6
65°	2619.0	2661.5	2883.1	3111.3	3339.0	3189.6	3147.2	3112.7	3264.0	3363.0	3704.3
67.5°	2480.1	2534.8	2878.7	3250.2	3635.8	3638.7	3599.2	3518.3	3614.8	3652.9	3788.9
70°	2114.1	2196.1	2625.2	3302.0	3976.4	4252.8	4214.7	4006.5	3964.8	3780.5	3550.9
72.5°	1362.1	1472.4	1933.0	2875.1	4052.2	4830.7	4828.5	4447.3	4075.4	3532.5	2848.0
75°	496.9	564.5	898.2	1804.6	3401.5	4801.3	4815.4	4371.8	3720.3	2728.5	1774.2
77.5°	181.0	198.0	293.0	693.6	2091.9	3852.4	3881.8	3495.0	2648.1	1369.4	703.0
80°	95.0	104.4	150.2	269.2	896.4	2287.8	2333.9	2077.1	1244.6	412.5	210.7
82.5°	52.6	57.0	84.2	146.2	403.7	978.4	1005.9	820.5	437.9	174.9	87.0
85°	28.3	30.1	39.6	79.8	197.3	339.2	346.8	245.2	174.5	102.7	42.1
87.5°	8.3	10.1	13.0	25.4	77.3	76.2	78.0	48.6	68.9	51.9	13.7
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°	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6
2.5°	697.9	696.8	692.8	691.1	688.9	688.5	690.3	690.6	691.1	691.4	692.8
5°	704.5	700.8	697.2	695.1	695.8	696.1	699.8	702.2	704.1	705.5	706.2
7.5°	717.2	714.2	708.1	707.8	708.8	712.1	716.8	722.6	725.9	728.4	729.1
10°	736.1	730.6	723.3	724.4	726.6	731.3	741.1	745.8	751.2	755.9	754.9
12.5°	755.2	750.5	742.2	742.9	746.5	754.9	764.3	770.1	773.8	777.4	778.8
15°	780.2	771.9	762.8	762.8	769.4	778.5	782.8	787.5	789.7	793.7	795.1
17.5°	806.1	795.1	783.2	782.5	790.4	794.8	797.3	798.1	798.8	803.1	804.5
20°	831.8	819.8	802.8	801.3	803.1	802.4	802.1	801.3	802.4	807.8	810.1
22.5°	857.2	843.4	819.8	813.2	808.2	801.3	800.9	800.6	801.3	806.8	810.4
25°	886.9	870.2	838.7	819.1	802.1	792.6	793.7	794.1	794.8	799.1	804.9
27.5°	919.2	900.7	856.1	817.2	786.5	779.9	778.1	779.2	781.8	788.6	795.5
30°	951.5	929.7	872.1	810.1	766.8	757.8	751.9	754.5	762.5	769.4	777.1
32.5°	980.8	959.1	884.8	794.1	741.8	727.6	720.1	723.3	731.3	733.8	742.9
35°	1015.4	990.7	890.2	768.6	714.6	692.8	682.6	677.9	681.9	679.5	687.4
37.5°	1053.8	1028.0	889.5	735.3	682.6	657.6	643.5	625.8	617.4	608.6	614.1
40°	1110.7	1073.7	880.8	695.1	643.2	620.3	594.9	564.8	545.9	528.9	529.9
42.5°	1188.4	1137.2	864.8	650.8	598.5	577.2	542.6	507.5	477.8	449.5	446.9
45°	1304.1	1220.3	844.8	603.6	550.3	529.2	491.9	452.3	418.6	382.3	378.0
47.5°	1471.0	1332.0	825.9	549.9	499.5	480.3	446.5	409.9	370.0	334.8	330.9
50°	1700.2	1492.3	808.5	497.6	449.5	434.9	408.1	370.7	330.5	302.2	300.3
52.5°	1991.9	1710.3	801.3	447.3	402.6	397.2	375.8	341.0	302.9	278.9	277.2
55°	2326.6	1971.2	801.3	399.0	361.6	363.5	348.6	316.3	283.3	261.9	259.7
57.5°	2668.4	2235.2	786.8	354.4	326.9	334.5	325.0	296.7	267.0	244.9	241.2
60°	2983.3	2456.5	728.1	313.8	296.0	308.0	301.8	277.5	241.2	222.7	219.9
62.5°	3225.2	2581.3	614.9	281.5	270.6	284.4	281.2	252.2	236.5	228.9	226.3
65°	3346.3	2561.0	470.2	252.9	249.2	270.6	263.7	262.6	250.3	241.6	238.7
67.5°	3272.0	2386.1	341.0	231.8	236.9	257.9	284.4	288.7	265.9	248.9	245.9
70°	2945.8	2069.8	253.9	211.9	221.3	258.3	324.3	302.2	260.9	240.9	237.6
72.5°	2241.1	1543.4	197.0	190.9	201.0	260.0	342.0	296.0	246.3	266.3	264.0
75°	1281.6	847.4	158.2	165.0	175.6	243.0	333.0	280.0	235.0	244.5	244.5
77.5°	488.6	325.7	130.6	139.7	141.1	212.2	318.5	278.9	223.9	218.3	199.2
80°	169.4	127.3	108.1	111.0	109.2	188.6	305.4	242.7	183.2	164.0	158.6
82.5°	69.3	63.4	85.6	82.0	77.6	146.6	246.7	198.4	149.9	132.4	131.0
85°	30.1	40.3	56.6	49.7	45.0	101.6	197.7	168.0	126.6	109.2	108.9
87.5°	6.1	15.3	24.0	22.4	23.2	67.9	140.4	119.3	89.6	67.1	52.6
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)