

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: P883589

Luminaire Tested: **NVN-SB4A-730-U-T3**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883589
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17907 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

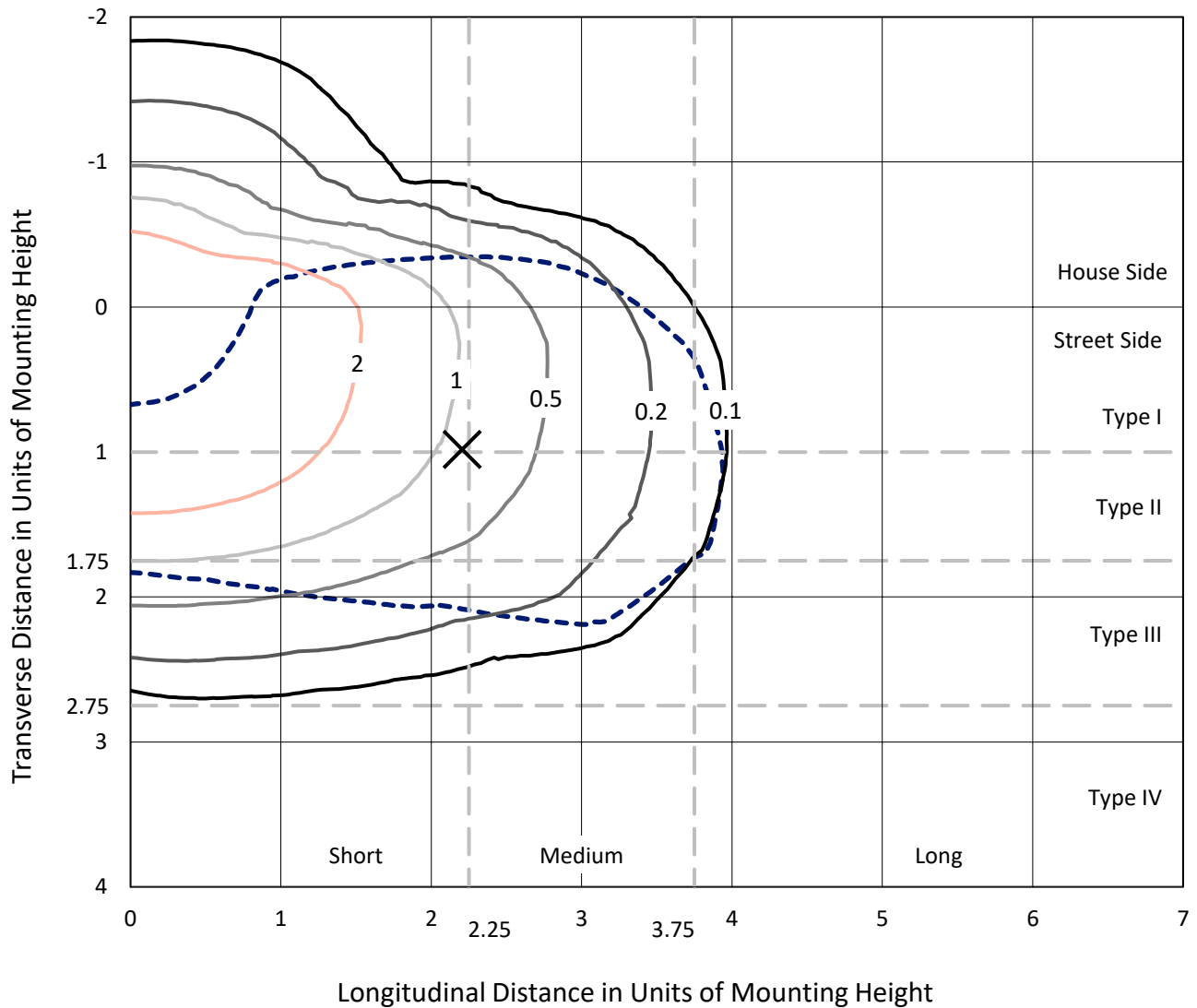
Input Watts (W): 114
Input Voltage (V): 120.0
Input Current (Ain): 0.952
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.206
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883589
 CATALOG NUMBER: NVN-SB4A-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

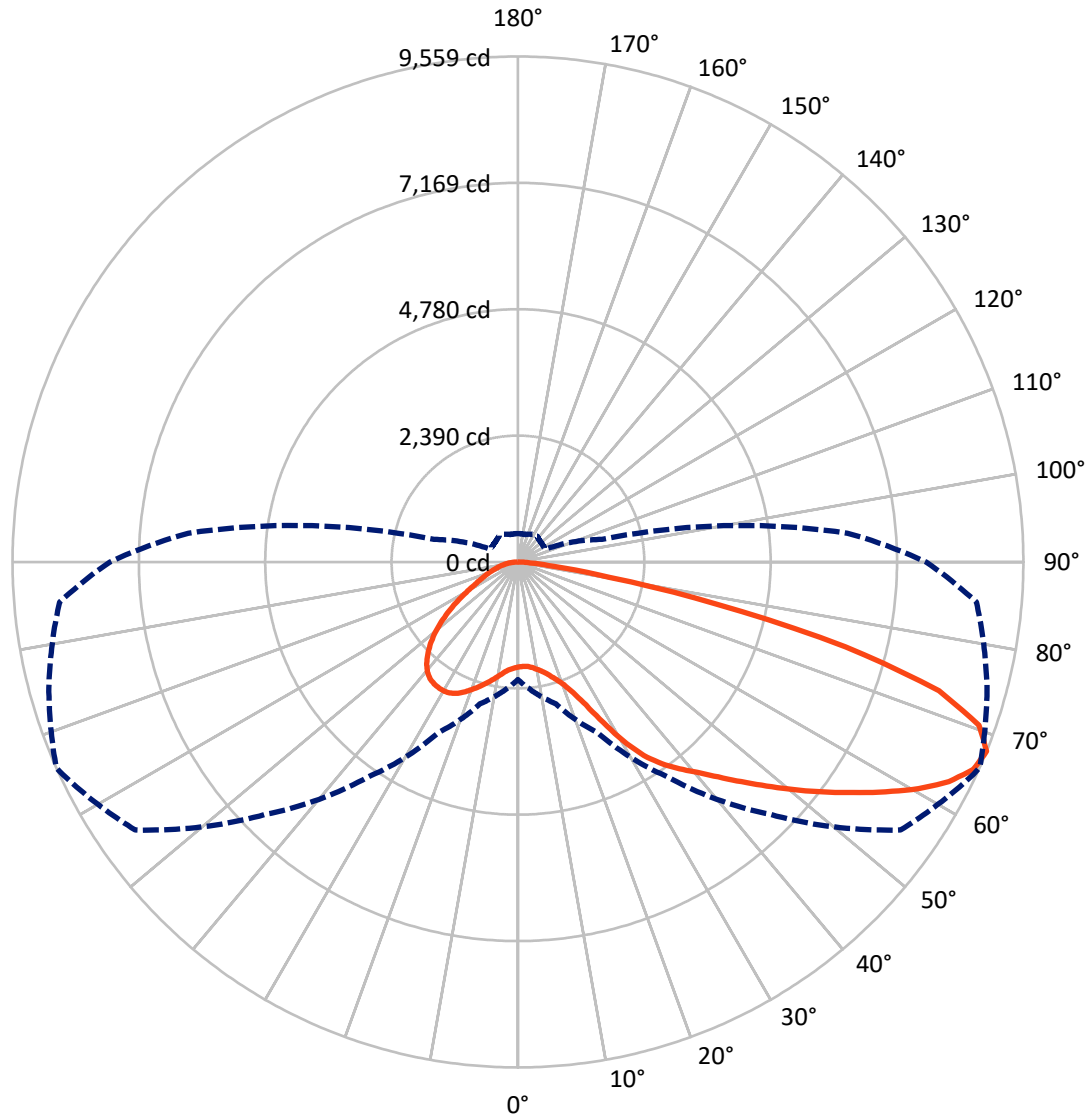
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

REPORT NUMBER: P883589
CATALOG NUMBER: NVN-SB4A-730-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P883589
 CATALOG NUMBER: NVN-SB4A-730-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4452.5	0.0	4452.5
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	13454.5	0.0	13454.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	17907.0	0.0	17907.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	1.1
10°-20°	650.6	3.6
20°-30°	1254.0	7.0
30°-40°	2198.7	12.3
40°-50°	3268.7	18.3
50°-60°	4143.4	23.1
60°-70°	4054.2	22.6
70°-80°	1933.9	10.8
80°-90°	206.7	1.2
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°	17907.0	100.0
0°-180°	17907.0	100.0



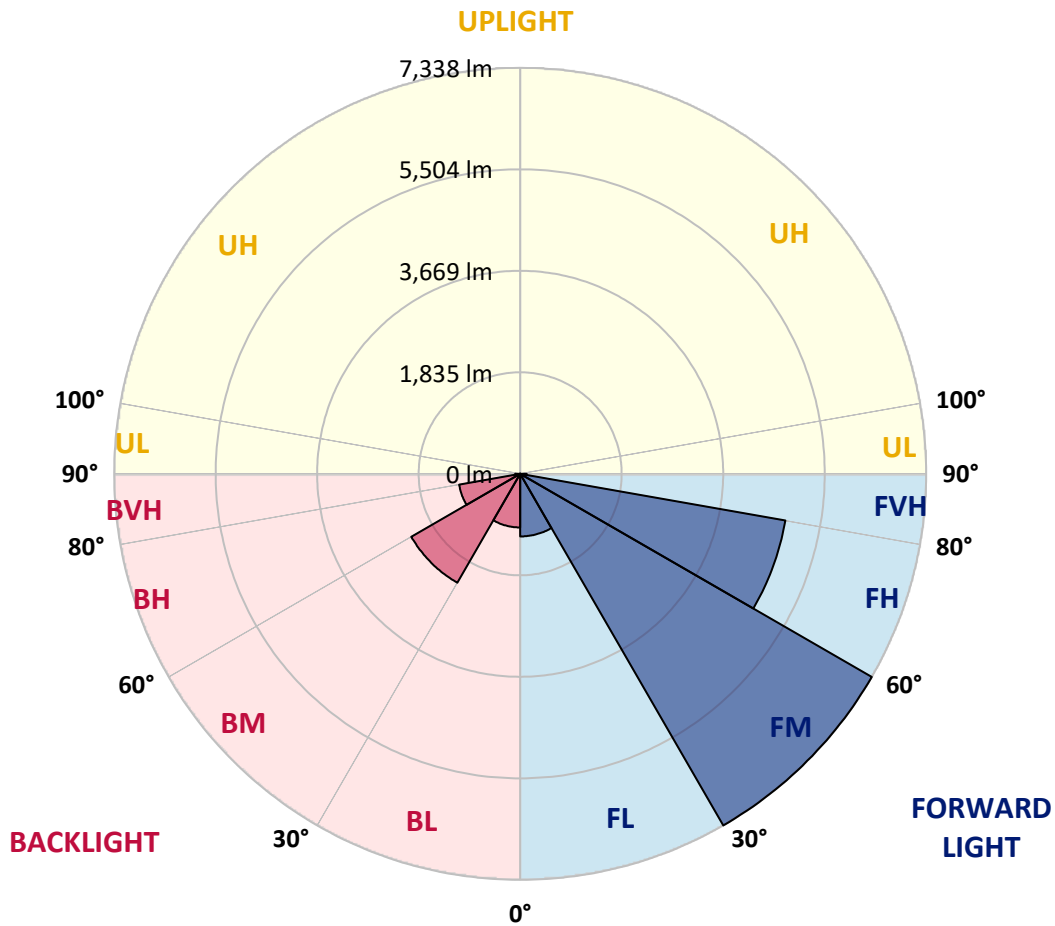
REPORT NUMBER: P883589
 CATALOG NUMBER: NVN-SB4A-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1131.5	6.3			
FM (30°-60°)	7338.1	41.0			
FH (60°-80°)	4867.6	27.2			G2/5000
FVH (80°-90°)	117.2	0.7			G2/225
BL (0°-30°)	969.9	5.4	B2/1000		
BM (30°-60°)	2272.6	12.7	B2/2500		
BH (60°-80°)	1120.5	6.3	B3/2500		G3/2500
BVH (80°-90°)	89.5	0.5			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 III Short



REPORT NUMBER: P883589
 CATALOG NUMBER: NVN-SB4A-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1
2.5°	1965.4	1976.7	1973.9	1969.2	1968.2	1970.1	1973.0	1975.8	1974.8	1979.5	1987.1
5°	1959.8	1971.1	1970.1	1970.1	1973.9	1981.4	1986.1	1990.8	1986.1	1991.8	2002.1
7.5°	1963.5	1972.0	1975.8	1979.5	1988.9	2003.1	2014.3	2024.7	2019.1	2025.6	2038.8
10°	2011.5	2018.1	2021.9	2021.9	2028.5	2044.5	2055.7	2074.6	2069.9	2080.2	2097.1
12.5°	2099.0	2105.6	2105.6	2101.8	2106.6	2116.9	2120.7	2141.4	2132.9	2149.8	2166.8
15°	2206.3	2219.5	2209.1	2202.5	2204.4	2214.7	2213.8	2229.8	2221.3	2235.4	2250.5
17.5°	2324.8	2341.8	2324.8	2323.9	2320.1	2331.4	2332.4	2346.5	2331.4	2341.8	2352.1
20°	2465.0	2488.5	2474.4	2479.1	2470.7	2475.4	2480.1	2500.8	2477.2	2484.8	2481.9
22.5°	2662.6	2690.8	2675.8	2693.6	2688.0	2684.2	2683.3	2720.0	2683.3	2686.1	2658.8
25°	2950.5	2984.4	2958.0	2982.5	2982.5	2994.7	3008.8	3055.9	2994.7	2976.8	2906.3
27.5°	3375.8	3409.6	3357.9	3372.9	3368.2	3398.3	3383.3	3499.9	3434.1	3404.9	3262.8
30°	3887.6	3947.8	3849.9	3846.2	3841.5	3889.5	3911.1	3988.2	3921.4	3892.3	3721.0
32.5°	4440.8	4503.8	4387.2	4353.3	4335.4	4364.6	4346.7	4408.8	4362.7	4317.5	4105.8
35°	5026.0	5088.1	4977.1	4911.2	4839.7	4778.5	4714.6	4730.6	4687.3	4618.6	4399.4
37.5°	5579.2	5693.1	5575.4	5504.9	5373.2	5253.7	5074.9	5000.6	4960.1	4897.1	4676.0
40°	6142.8	6207.7	6118.3	6058.1	5915.1	5727.9	5441.8	5284.7	5230.2	5169.0	4981.8
42.5°	6557.7	6619.8	6571.8	6530.4	6418.4	6201.1	5831.4	5634.7	5555.7	5487.0	5328.0
45°	6887.0	6933.1	6903.0	6918.0	6870.0	6659.3	6235.0	6010.1	5928.3	5844.5	5719.4
47.5°	7019.6	7068.6	7116.5	7205.9	7287.8	7132.5	6668.7	6416.6	6330.0	6244.4	6121.1
50°	7004.6	7054.5	7193.7	7383.7	7637.8	7586.0	7126.0	6849.3	6769.4	6671.5	6557.7
52.5°	6884.2	6940.6	7119.4	7435.5	7840.1	7925.7	7591.7	7296.2	7221.0	7104.3	6990.5
55°	6568.0	6601.9	6870.0	7317.9	7888.0	8162.8	8048.0	7772.3	7697.0	7534.3	7410.1
57.5°	5981.9	6030.8	6421.3	7000.8	7767.6	8323.7	8448.8	8272.8	8200.4	7966.1	7836.3
60°	5217.0	5295.1	5742.0	6468.3	7460.9	8322.7	8812.9	8764.9	8704.7	8391.4	8255.9
62.5°	4351.4	4441.7	4871.7	5715.6	6924.6	8086.6	9040.6	9177.0	9146.0	8783.7	8610.6
65°	3341.9	3404.0	3832.1	4741.9	6090.1	7579.4	9066.9	9458.3	9464.0	9082.0	8796.0
67.5°	2225.1	2403.9	2775.5	3558.3	4972.4	6750.6	8835.5	9504.4	9559.0	9184.5	8702.8
70°	1085.7	1320.9	1685.1	2312.6	3558.3	5479.5	8230.5	9126.2	9247.6	8885.3	8147.7
72.5°	450.7	526.9	725.4	1141.2	2042.6	3697.5	7014.9	8100.7	8325.5	7873.0	6850.3
75°	303.9	329.3	414.9	585.2	930.5	1823.4	5058.9	6040.2	6402.4	5946.1	4860.4
77.5°	234.3	250.3	302.0	409.3	553.2	689.6	2707.8	3640.1	3827.4	3543.2	2529.0
80°	184.4	196.6	225.8	298.2	392.3	368.8	923.0	1649.3	1757.5	1474.3	812.9
82.5°	159.9	164.6	161.8	202.3	260.6	215.5	303.0	608.7	671.8	487.4	265.3
85°	115.7	128.9	134.5	125.1	138.3	109.1	124.2	215.5	237.1	211.7	149.6
87.5°	47.0	69.6	85.6	80.9	50.8	31.0	38.6	63.0	72.4	79.0	48.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P883589
 CATALOG NUMBER: NVN-SB4A-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1	1986.1
2.5°	1988.0	1994.6	1999.3	2004.9	2008.7	2014.3	2025.6	2032.2	2033.2	2037.9	2036.9
5°	2005.9	2015.3	2025.6	2040.7	2057.6	2071.7	2093.4	2108.4	2114.1	2118.8	2117.8
7.5°	2044.5	2057.6	2076.4	2102.8	2127.2	2146.1	2172.4	2190.3	2208.2	2214.7	2215.7
10°	2101.8	2120.7	2147.9	2183.7	2210.0	2234.5	2261.8	2276.8	2294.7	2302.2	2306.0
12.5°	2173.4	2193.1	2228.9	2278.7	2303.2	2320.1	2329.5	2325.8	2329.5	2336.1	2338.0
15°	2255.2	2276.8	2317.3	2370.9	2387.9	2372.8	2352.1	2333.3	2330.5	2332.4	2338.9
17.5°	2352.1	2368.1	2415.1	2460.3	2448.1	2386.0	2340.8	2310.7	2295.7	2291.0	2297.5
20°	2487.6	2487.6	2526.2	2554.4	2472.5	2367.2	2296.6	2247.7	2216.6	2203.5	2200.6
22.5°	2652.2	2637.2	2661.6	2641.9	2467.8	2314.5	2216.6	2132.0	2084.9	2066.1	2063.3
25°	2861.1	2843.2	2836.6	2714.3	2434.0	2230.7	2071.7	1969.2	1927.8	1917.4	1919.3
27.5°	3176.3	3131.1	3045.5	2753.9	2371.9	2099.0	1902.4	1807.4	1783.8	1784.8	1787.6
30°	3595.9	3505.6	3295.8	2760.4	2270.3	1912.7	1729.3	1661.5	1650.2	1654.9	1670.9
32.5°	3984.5	3898.9	3551.7	2730.3	2114.1	1730.2	1574.0	1528.9	1511.9	1517.6	1525.1
35°	4289.3	4265.8	3788.8	2688.0	1922.1	1559.0	1434.8	1396.2	1363.3	1355.8	1361.4
37.5°	4577.2	4567.8	3966.6	2628.7	1732.1	1437.6	1322.8	1272.0	1224.0	1197.7	1198.6
40°	4893.3	4883.9	4083.3	2537.5	1563.7	1332.2	1222.2	1155.4	1096.1	1048.1	1052.8
42.5°	5249.0	5193.5	4138.8	2406.7	1420.7	1242.9	1140.3	1050.0	971.9	927.7	930.5
45°	5637.5	5512.4	4137.8	2240.2	1300.2	1161.0	1052.8	924.9	852.4	811.0	809.1
47.5°	6049.6	5817.2	4087.0	2055.7	1183.6	1070.7	917.3	819.5	771.5	746.1	740.4
50°	6474.9	6102.3	4000.5	1844.1	1064.1	968.1	832.6	765.8	729.2	705.6	697.2
52.5°	6874.8	6361.1	3896.0	1604.1	942.7	868.4	795.0	743.3	704.7	678.3	667.1
55°	7246.4	6584.0	3748.3	1358.6	843.9	801.6	777.1	733.9	689.6	658.6	646.4
57.5°	7576.6	6728.9	3493.4	1128.1	773.4	755.5	758.3	717.9	667.1	640.7	623.8
60°	7851.3	6835.2	3116.1	914.5	716.0	710.3	729.2	687.8	628.5	598.4	585.2
62.5°	8016.0	6833.4	2653.2	748.9	667.1	668.9	690.6	650.1	589.9	561.7	553.2
65°	8001.9	6665.9	2145.1	640.7	620.0	621.9	650.1	608.7	557.9	541.0	540.0
67.5°	7718.7	6257.6	1645.5	570.2	568.3	576.7	609.7	580.5	538.2	536.3	539.1
70°	6951.9	5409.9	1185.5	513.7	514.6	526.9	570.2	562.6	527.8	531.6	530.6
72.5°	5574.5	4124.7	796.0	454.4	455.4	475.1	532.5	548.5	517.5	567.3	574.9
75°	3712.6	2572.3	511.8	391.4	392.3	417.7	499.6	521.2	489.2	565.4	570.2
77.5°	1783.8	1156.3	370.7	329.3	329.3	352.8	431.8	466.7	416.8	439.4	402.7
80°	616.3	434.7	291.7	265.3	259.7	275.7	364.1	404.6	359.4	331.2	310.5
82.5°	242.7	225.8	234.3	206.0	187.2	197.6	283.2	334.0	264.4	239.0	238.0
85°	139.2	146.8	165.6	136.4	108.2	121.4	207.9	239.9	199.5	175.9	179.7
87.5°	37.6	51.7	76.2	70.6	48.9	51.7	98.8	132.7	114.8	88.4	91.3
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)