

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: P959429

Luminaire Tested: **NVN-SB1A-827-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1A-827-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4106.1 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

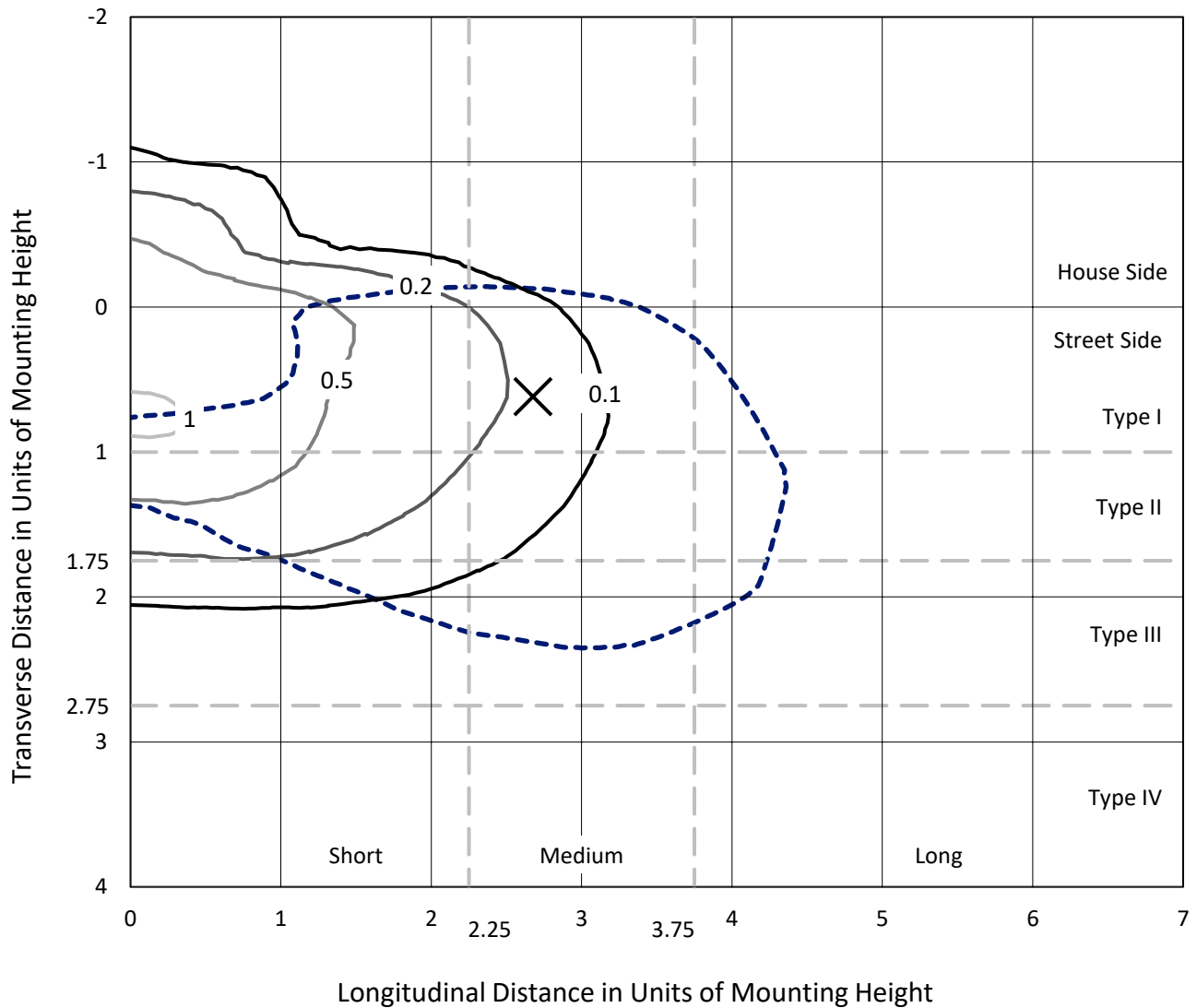
Input Watts (W): 30.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

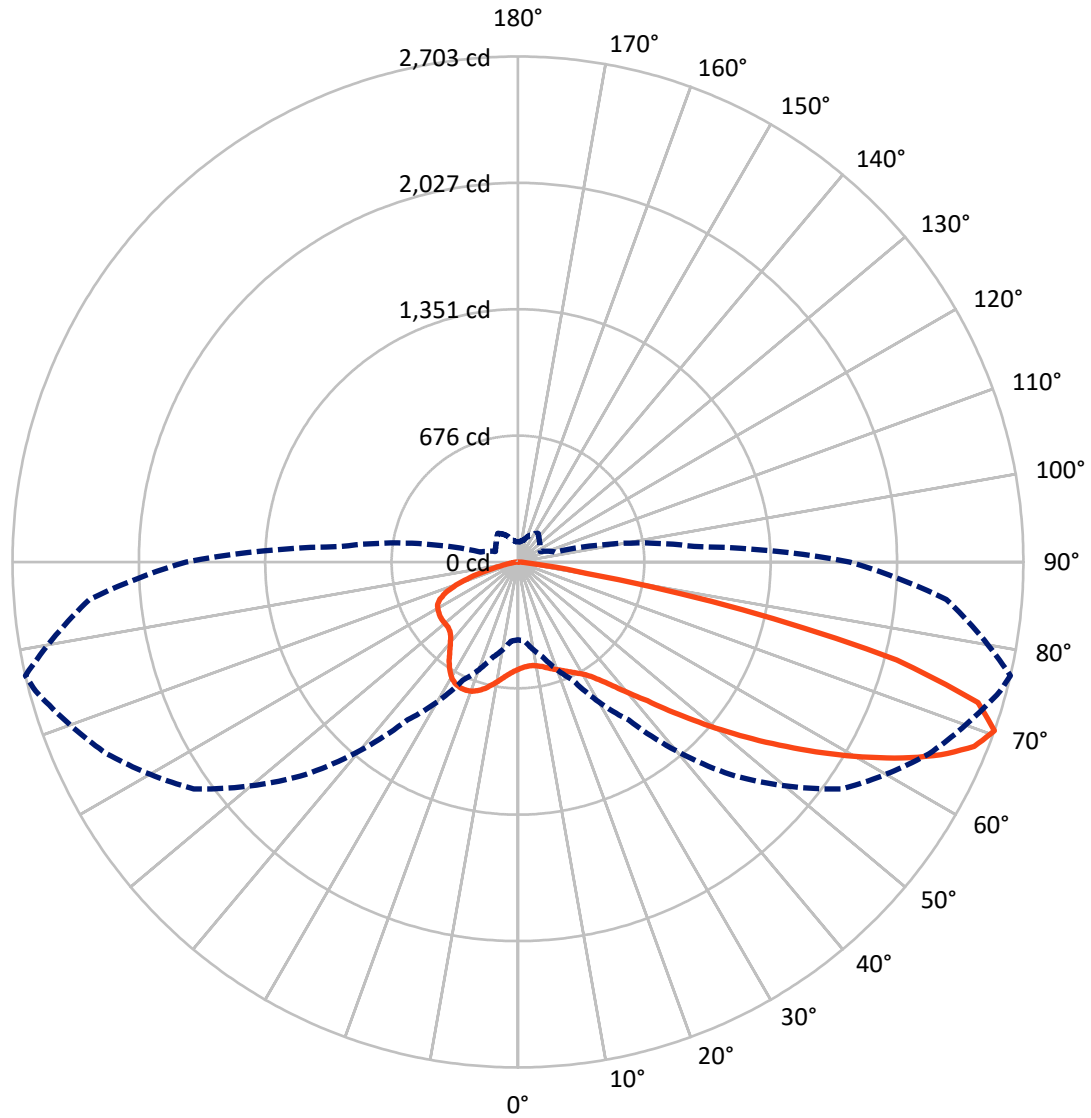
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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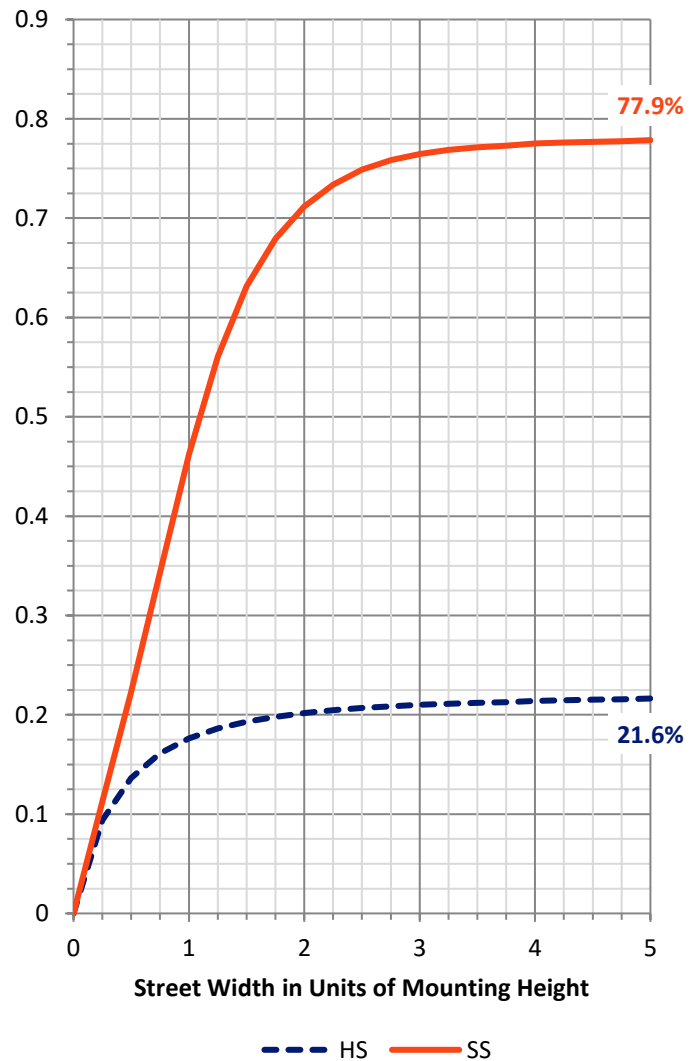
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	899.2	0.0	899.2
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	3207.0	0.0	3207.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	4106.1	0.0	4106.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.6	1.3
10°-20°	157.7	3.8
20°-30°	269.7	6.6
30°-40°	433.6	10.6
40°-50°	677.0	16.5
50°-60°	904.3	22.0
60°-70°	963.9	23.5
70°-80°	593.3	14.5
80°-90°	52.0	1.3
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°	4106.1	100.0
0°-180°	4106.1	100.0

Coefficient of Utilization



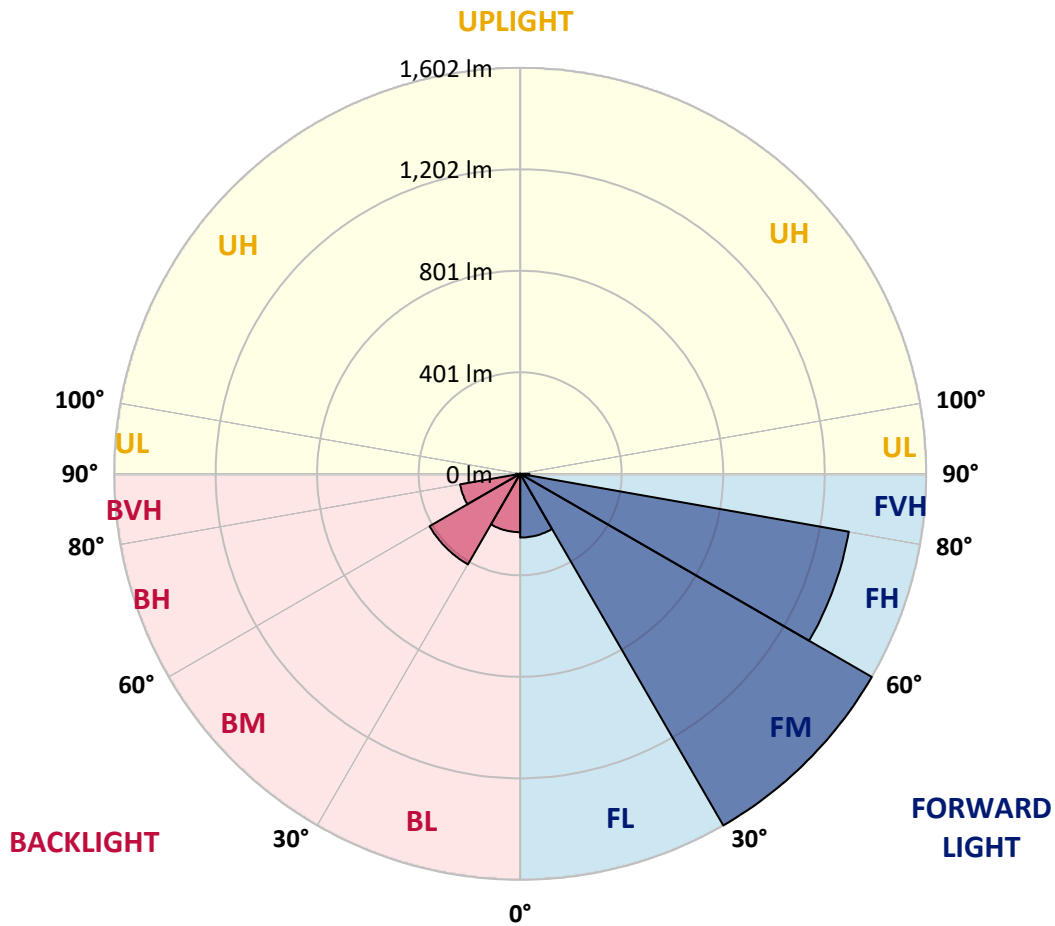
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	251.6	6.1			
FM (30°-60°)	1602.1	39.0			
FH (60°-80°)	1316.9	32.1			G1/1800
FVH (80°-90°)	36.4	0.9			G1/100
BL (0°-30°)	230.4	5.6	B1/500		
BM (30°-60°)	412.8	10.1	B1/1000		
BH (60°-80°)	240.3	5.9	B1/500		G1/500
BVH (80°-90°)	15.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9
2.5°	528.1	527.9	530.5	531.5	536.5	540.1	546.7	553.9	563.1	564.3	569.9
5°	497.5	497.5	500.7	504.1	510.6	517.7	528.1	540.5	556.5	558.9	573.1
7.5°	471.7	473.3	476.1	482.7	490.2	500.5	516.3	533.9	554.9	558.9	581.7
10°	450.9	452.7	456.1	461.4	472.7	487.1	507.7	530.3	558.5	564.9	594.3
12.5°	444.3	446.3	448.1	452.1	462.7	479.5	504.1	532.1	567.1	573.5	611.5
15°	459.5	461.8	460.3	459.3	464.7	480.1	505.7	538.1	577.9	586.9	632.7
17.5°	494.4	495.3	491.9	482.0	481.1	489.3	513.7	546.5	591.3	601.3	654.3
20°	550.7	549.3	542.3	522.8	511.7	509.9	527.5	559.1	605.3	615.7	677.3
22.5°	627.3	625.7	611.7	580.9	556.1	539.7	547.1	575.5	620.8	632.5	699.9
25°	722.8	720.5	700.1	658.0	619.5	578.9	574.1	597.3	639.9	650.9	723.4
27.5°	834.2	832.3	810.3	754.7	699.3	632.7	607.5	622.7	659.9	672.3	749.9
30°	954.1	959.6	920.4	860.7	790.5	703.0	652.5	654.1	685.7	696.9	782.1
32.5°	1095.0	1104.4	1057.4	981.6	885.8	779.3	709.3	697.7	723.4	732.7	822.7
35°	1234.6	1245.4	1206.2	1122.6	1012.2	869.4	768.6	748.0	773.5	783.6	876.5
37.5°	1355.4	1369.6	1349.5	1276.7	1147.4	977.8	846.0	807.1	835.1	847.7	948.8
40°	1450.6	1472.5	1471.0	1425.6	1306.8	1109.6	944.2	880.1	911.6	925.3	1036.6
42.5°	1528.0	1546.9	1563.3	1561.1	1473.1	1259.0	1059.6	975.0	998.9	1014.6	1135.2
45°	1581.5	1601.6	1636.9	1675.1	1633.1	1419.1	1192.0	1087.4	1109.4	1133.0	1252.8
47.5°	1629.1	1652.1	1697.9	1758.3	1769.0	1579.7	1336.8	1218.4	1238.4	1263.0	1370.7
50°	1633.3	1653.1	1724.3	1809.8	1865.5	1734.1	1492.5	1365.4	1384.2	1410.5	1497.1
52.5°	1531.8	1562.9	1686.9	1808.3	1909.9	1863.2	1647.1	1518.3	1539.3	1570.9	1627.9
55°	1189.0	1234.6	1577.9	1751.9	1894.1	1946.7	1794.1	1680.9	1707.9	1740.9	1759.5
57.5°	1024.2	1044.2	1252.6	1649.3	1822.2	1968.4	1918.1	1845.1	1888.5	1924.6	1898.7
60°	920.4	937.1	1060.3	1489.7	1727.5	1934.1	2014.0	1998.2	2073.1	2116.2	2041.1
62.5°	809.4	825.2	937.3	1243.9	1606.5	1877.1	2074.6	2139.6	2262.4	2309.4	2175.3
65°	699.3	712.7	820.1	1045.2	1452.5	1820.1	2105.9	2261.8	2437.6	2486.3	2286.8
67.5°	576.5	587.5	689.1	881.8	1265.4	1742.1	2121.4	2357.8	2590.0	2631.9	2341.8
70°	415.9	424.6	529.5	697.3	1030.4	1607.9	2115.2	2426.0	2669.1	2702.5	2300.2
72.5°	196.6	204.4	327.6	452.7	727.9	1346.7	1987.5	2372.0	2588.7	2572.1	2045.3
75°	105.0	111.6	188.2	248.4	384.4	923.2	1626.5	2043.2	2173.8	2093.0	1511.6
77.5°	71.0	76.4	116.5	149.1	175.6	438.3	1045.4	1414.7	1361.0	1227.7	757.1
80°	56.4	61.8	95.4	101.0	85.0	158.4	431.9	654.9	470.5	376.2	215.4
82.5°	43.4	49.4	80.4	73.2	46.2	65.0	125.8	207.2	120.5	91.7	52.2
85°	26.5	33.0	63.0	46.6	26.0	29.6	42.6	57.6	36.8	30.7	18.8
87.5°	13.4	19.0	32.0	17.0	11.8	7.0	11.4	11.4	9.6	8.4	4.8
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°	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9	572.9
2.5°	574.9	579.1	586.3	593.1	598.3	603.3	608.3	611.1	611.9	615.3	617.3
5°	581.7	589.5	603.3	616.3	624.5	629.7	633.2	635.3	635.7	636.7	638.5
7.5°	594.1	606.5	625.9	638.9	644.9	644.5	643.1	637.9	635.7	633.9	634.3
10°	611.5	627.9	651.7	660.7	656.9	646.9	633.9	618.5	611.3	604.3	602.3
12.5°	633.2	654.1	677.3	676.9	658.3	632.3	602.1	578.5	563.5	552.9	550.3
15°	659.5	683.5	701.3	687.1	646.1	599.5	555.1	524.5	511.1	499.3	497.9
17.5°	686.6	712.3	720.5	683.9	615.3	550.9	500.7	476.5	463.3	456.9	458.9
20°	713.1	738.5	731.8	665.8	568.7	495.9	451.1	437.9	435.1	436.5	435.9
22.5°	741.1	763.8	734.1	630.9	509.1	439.5	414.9	415.3	421.5	425.9	426.9
25°	769.7	785.0	728.1	580.5	445.2	398.1	392.0	398.7	410.7	419.3	421.7
27.5°	797.2	804.0	714.8	517.9	390.3	368.5	369.5	383.3	401.5	413.5	416.4
30°	828.4	820.8	689.3	447.7	352.3	343.0	351.8	368.0	386.1	396.8	399.3
32.5°	863.5	835.3	648.9	382.7	325.3	322.6	337.1	347.6	355.6	358.7	360.5
35°	907.2	855.7	597.3	337.1	301.1	307.7	321.5	316.3	313.1	311.5	313.1
37.5°	964.0	883.2	536.7	307.5	281.6	296.9	302.6	286.2	273.8	267.7	269.2
40°	1032.4	923.6	478.5	284.5	269.2	287.7	277.8	258.0	242.3	233.6	234.3
42.5°	1108.2	965.9	429.4	267.3	262.2	280.1	259.5	236.0	210.5	207.8	210.5
45°	1188.0	1009.4	396.0	254.0	258.9	273.6	249.0	210.9	192.8	204.0	209.9
47.5°	1267.6	1049.4	375.8	244.2	257.2	266.2	239.7	197.0	184.2	200.4	208.0
50°	1356.4	1085.2	366.7	237.0	255.3	263.3	225.8	193.5	175.2	185.9	193.9
52.5°	1444.5	1112.8	360.0	229.8	252.6	261.0	219.1	189.2	164.2	164.9	169.3
55°	1532.4	1131.0	352.7	220.4	246.5	255.9	218.5	184.6	156.0	153.1	155.2
57.5°	1626.3	1141.2	343.6	209.9	236.0	243.1	217.9	181.0	153.5	148.7	149.3
60°	1721.7	1156.4	331.9	197.0	221.9	227.8	216.4	179.8	152.0	143.8	144.4
62.5°	1807.3	1161.6	317.8	184.8	203.8	212.6	213.2	178.8	148.0	134.0	134.0
65°	1863.4	1139.0	293.2	171.0	184.2	197.0	207.2	175.2	140.9	126.8	126.8
67.5°	1861.1	1074.2	254.7	153.1	165.3	179.8	198.3	169.1	132.2	118.0	118.6
70°	1774.5	946.3	205.9	132.2	144.4	161.3	187.0	160.0	122.0	108.3	109.6
72.5°	1521.9	740.7	149.5	107.9	120.3	142.2	172.2	149.1	111.4	99.6	99.0
75°	1087.2	468.7	101.4	82.8	93.6	120.5	154.0	136.2	101.8	100.1	94.4
77.5°	555.3	224.0	67.0	60.6	65.2	95.0	129.4	121.8	103.2	82.6	73.6
80°	180.6	82.6	42.2	41.2	43.4	63.3	100.1	99.9	78.2	56.2	49.6
82.5°	57.6	35.6	27.6	26.5	25.4	39.8	69.8	79.0	52.8	35.6	35.4
85°	23.0	21.2	16.2	15.0	10.8	18.8	36.6	52.6	39.4	25.6	26.2
87.5°	8.4	8.4	4.4	3.2	2.4	6.4	9.8	15.8	22.5	13.2	13.0
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)