

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: P963113

Luminaire Tested: **NVN-SB2D-827-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2D-827-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13862.1 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

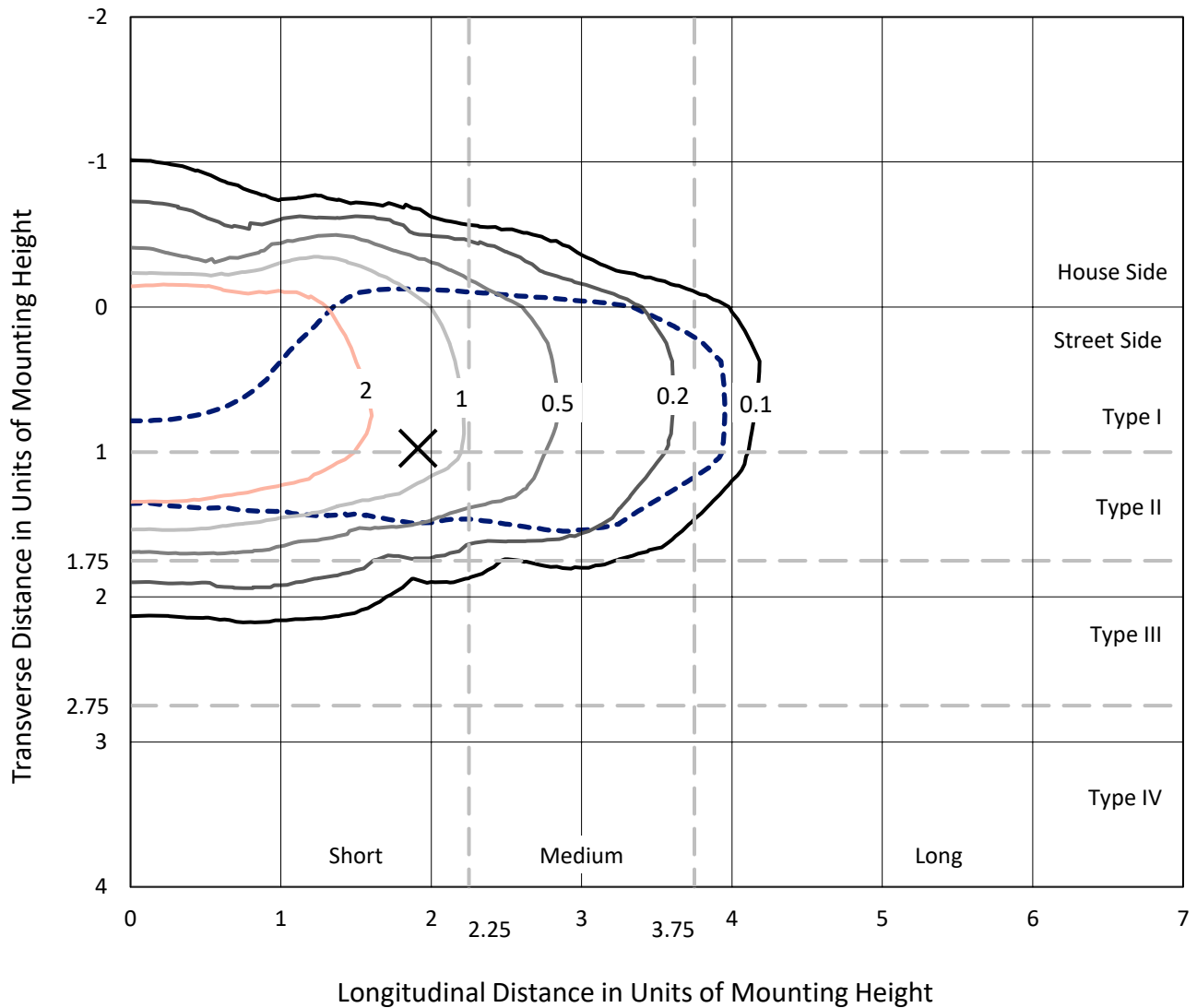
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

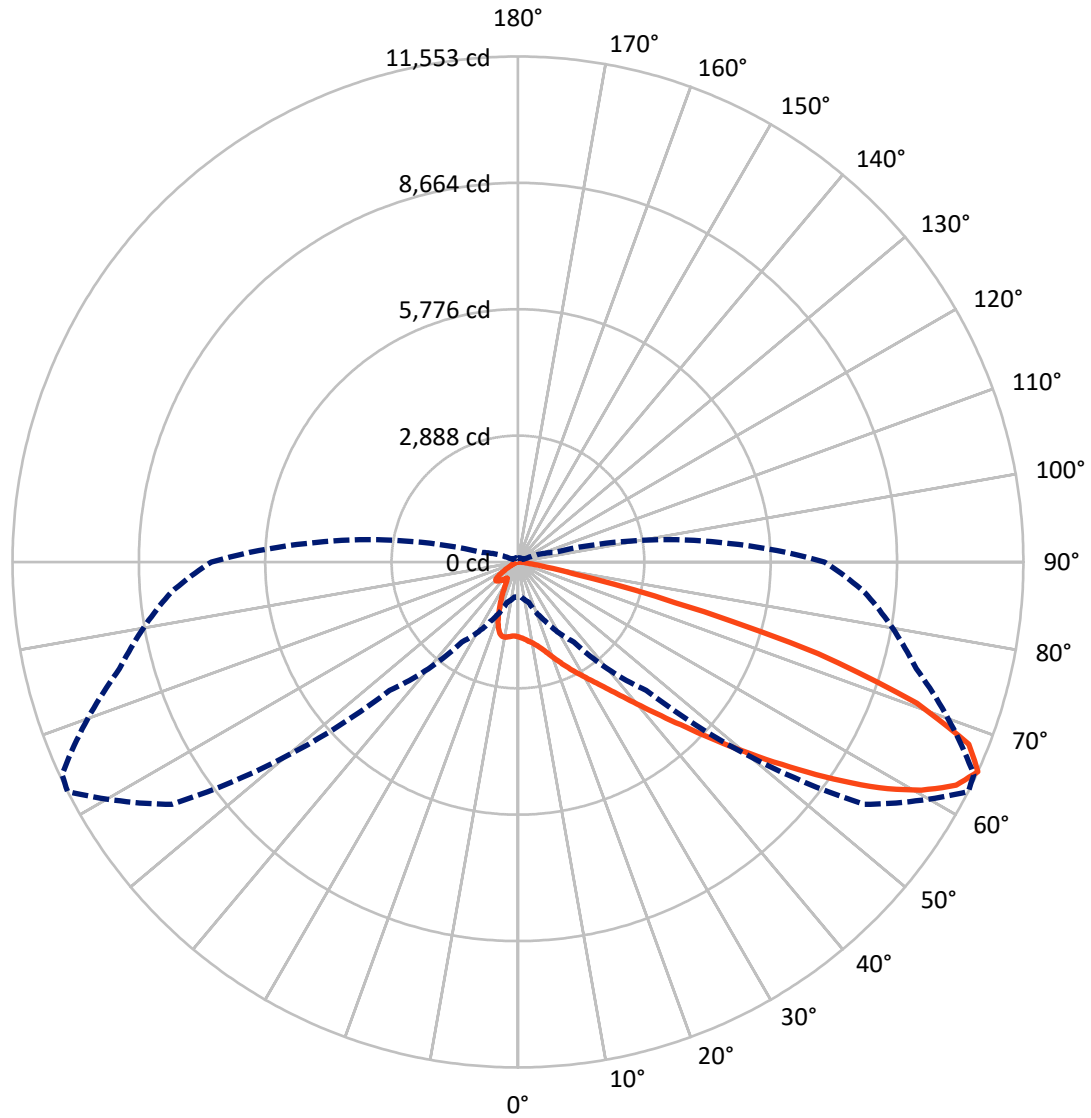
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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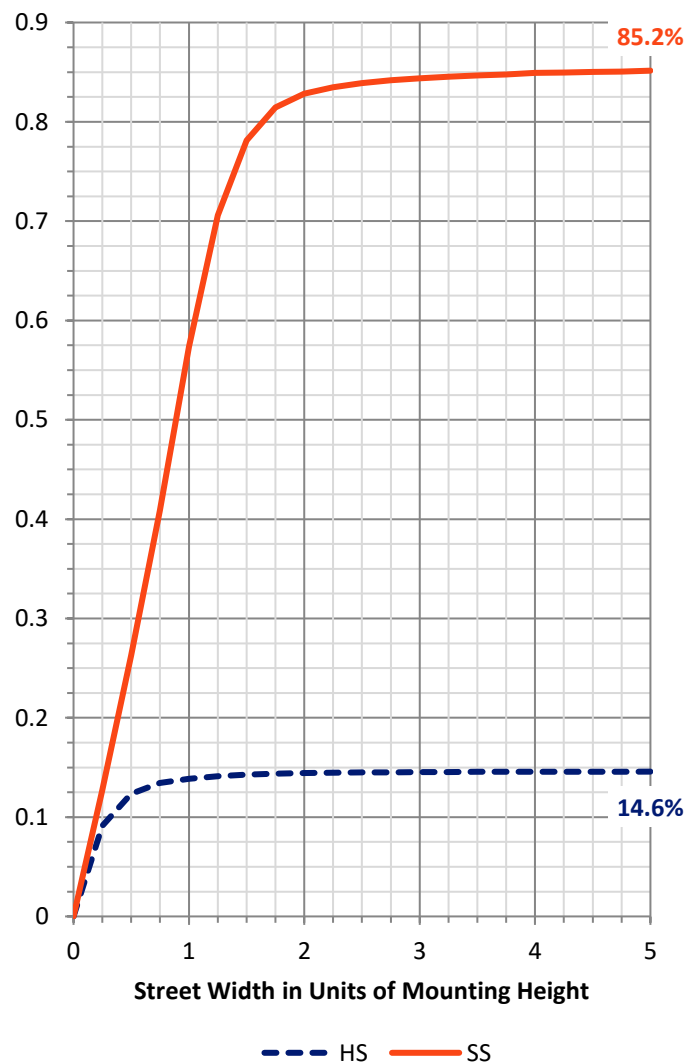
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2037.6	0.0	2037.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	11824.5	0.0	11824.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	13862.1	0.0	13862.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.2
10°-20°	447.3	3.2
20°-30°	778.8	5.6
30°-40°	1403.7	10.1
40°-50°	2783.9	20.1
50°-60°	3792.2	27.4
60°-70°	3026.9	21.8
70°-80°	1369.7	9.9
80°-90°	98.5	0.7
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°	13862.1	100.0
0°-180°	13862.1	100.0

Coefficient of Utilization



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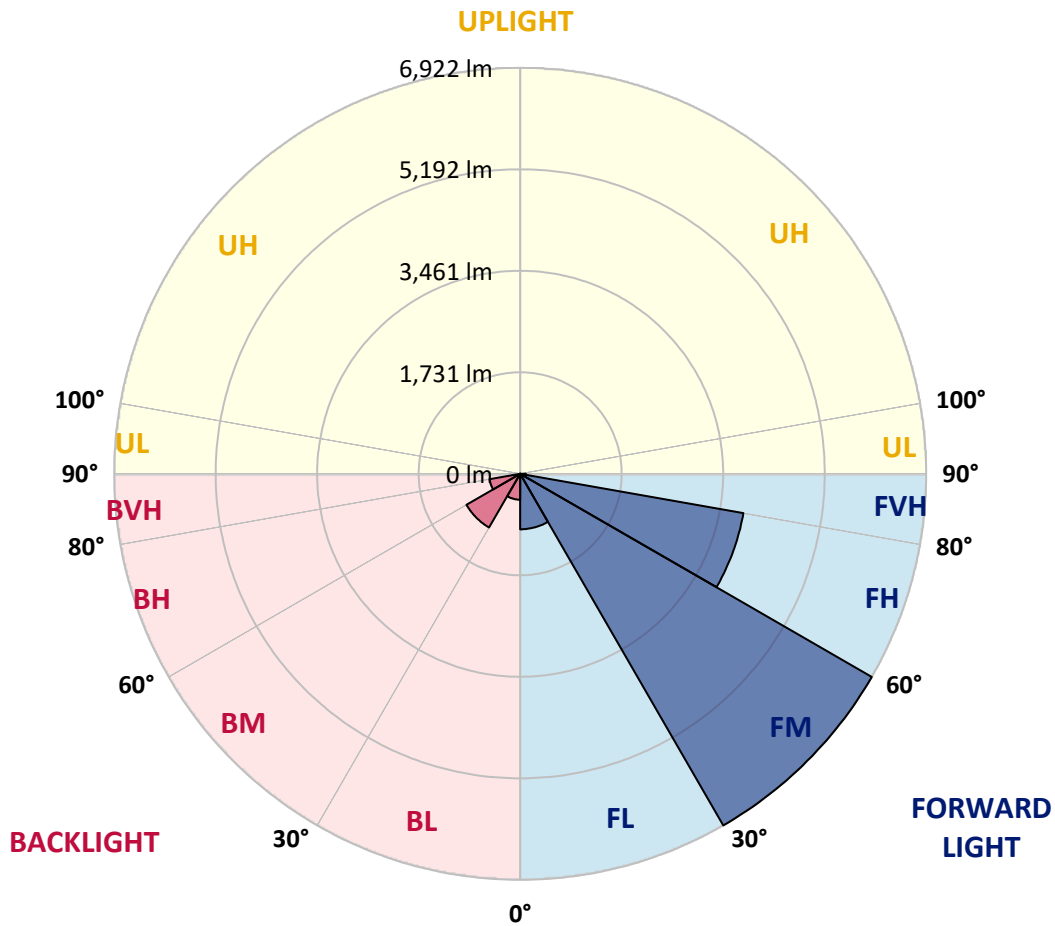
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	946.3	6.8			
FM (30°-60°)	6922.4	49.9			
FH (60°-80°)	3864.7	27.9			G2/5000
FVH (80°-90°)	91.2	0.7			G1/100
BL (0°-30°)	441.0	3.2	B1/500		
BM (30°-60°)	1057.4	7.6	B2/2500		
BH (60°-80°)	531.9	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8
2.5°	1750.9	1746.1	1752.9	1750.0	1748.0	1744.2	1742.3	1740.4	1736.6	1733.7	1722.3
5°	1755.6	1752.9	1759.5	1765.2	1770.9	1776.6	1779.5	1783.3	1779.5	1771.9	1760.4
7.5°	1715.6	1713.7	1728.0	1745.2	1770.9	1792.8	1816.7	1830.0	1831.0	1828.2	1815.8
10°	1712.8	1708.0	1722.3	1743.3	1776.6	1815.8	1857.7	1886.3	1890.1	1902.5	1889.2
12.5°	1757.6	1752.9	1772.8	1795.7	1830.0	1871.0	1922.6	1962.6	1968.3	1985.5	1976.0
15°	1832.9	1826.2	1849.1	1878.7	1922.6	1969.3	2023.7	2059.8	2064.7	2085.7	2068.4
17.5°	1920.6	1914.0	1940.6	1972.1	2019.9	2083.7	2146.7	2186.7	2192.5	2205.8	2174.3
20°	2033.2	2024.6	2045.6	2074.2	2124.7	2201.0	2276.3	2333.6	2332.6	2332.6	2281.1
22.5°	2163.9	2150.4	2168.6	2191.4	2239.2	2331.7	2431.8	2499.5	2499.5	2472.8	2387.9
25°	2304.0	2290.7	2310.7	2331.7	2373.6	2478.6	2595.8	2679.8	2683.6	2637.8	2502.3
27.5°	2479.5	2462.4	2477.5	2502.3	2527.1	2633.9	2773.2	2870.5	2872.4	2801.8	2611.1
30°	2817.1	2768.4	2720.8	2694.0	2705.5	2811.4	2960.1	3067.9	3077.5	2980.2	2729.4
32.5°	3435.1	3425.6	3257.7	3038.3	2923.9	3002.1	3169.0	3298.7	3304.4	3179.4	2882.9
35°	4395.4	4383.9	4114.0	3696.4	3323.5	3257.7	3422.7	3576.2	3572.3	3431.2	3082.2
37.5°	5541.7	5531.2	5175.4	4616.6	4013.0	3643.9	3749.8	3910.9	3934.8	3749.8	3339.7
40°	6521.0	6482.0	6256.9	5718.1	4928.4	4284.7	4215.1	4321.9	4346.7	4127.4	3666.7
42.5°	7262.9	7229.6	7115.1	6778.5	6036.6	5232.6	4763.5	4804.5	4832.2	4568.9	4042.5
45°	7647.3	7639.6	7685.4	7654.0	7165.7	6396.1	5547.4	5376.6	5387.2	5058.2	4468.8
47.5°	7701.6	7697.9	7906.7	8202.4	8136.6	7708.3	6553.4	6090.0	6052.8	5610.3	4932.3
50°	7381.2	7373.6	7774.1	8328.2	8785.0	8810.8	7695.9	6893.9	6811.9	6181.6	5415.8
52.5°	6358.0	6356.0	7014.1	7936.3	9012.9	9775.8	8825.0	7777.0	7639.6	6786.1	5927.0
55°	4892.2	4927.5	5681.9	6771.9	8597.2	10240.3	9838.8	8757.4	8546.6	7394.6	6398.0
57.5°	3465.5	3517.1	4262.8	5233.6	7307.8	9965.7	10524.5	9739.7	9512.6	8001.2	6875.8
60°	1861.5	1907.3	2654.0	3812.7	5436.7	8941.4	10885.9	10592.1	10377.6	8577.1	7306.8
62.5°	1109.0	1124.3	1433.4	2461.3	3677.3	6831.0	10732.4	11241.6	11065.2	9060.6	7681.7
65°	796.3	799.2	954.6	1503.0	2232.4	4150.3	9655.7	11552.5	11498.1	9424.9	7959.1
67.5°	670.5	668.5	733.4	998.5	1521.1	2078.9	7400.3	11112.8	11343.7	9655.7	8116.5
70°	575.0	577.9	654.2	731.4	1143.4	1176.8	3679.1	9675.7	10167.8	9716.7	8106.9
72.5°	428.1	437.7	508.3	666.6	863.0	809.6	1270.3	7174.3	8064.1	9155.0	7686.4
75°	302.3	307.1	357.6	560.8	643.7	589.4	648.5	3708.8	4849.3	7018.9	6291.2
77.5°	232.7	241.3	270.8	392.0	634.2	413.9	396.7	1283.6	1972.1	4239.9	4313.3
80°	125.9	141.1	195.5	283.2	445.4	292.7	196.5	511.2	668.5	1982.7	1663.2
82.5°	64.9	72.5	136.3	204.1	253.7	255.5	97.3	212.7	275.6	612.2	228.0
85°	25.7	31.5	91.5	112.5	130.7	125.9	43.9	85.8	99.2	169.7	69.6
87.5°	5.7	9.5	33.4	25.7	24.8	26.8	10.5	20.0	19.1	20.0	12.4
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°	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8	1710.8
2.5°	1721.4	1717.5	1707.0	1695.6	1682.2	1674.6	1669.8	1668.9	1662.2	1657.4	1662.2
5°	1750.0	1746.1	1726.1	1702.2	1676.5	1656.5	1637.4	1620.2	1595.4	1590.7	1588.7
7.5°	1807.2	1796.7	1764.2	1731.8	1683.2	1625.0	1554.4	1473.4	1400.9	1378.9	1368.5
10°	1877.7	1863.4	1822.4	1765.2	1657.4	1499.2	1328.4	1170.1	1044.3	1009.0	995.6
12.5°	1957.9	1945.4	1891.1	1785.2	1549.7	1262.6	1001.3	804.8	682.9	652.3	643.7
15°	2053.2	2035.0	1959.7	1754.7	1357.0	959.4	687.6	571.2	527.4	521.6	515.9
17.5°	2154.2	2124.7	2020.8	1645.0	1097.7	681.8	531.2	497.8	478.8	473.0	470.2
20°	2246.8	2208.7	2057.0	1479.1	820.1	531.2	475.9	454.0	436.8	430.1	426.3
22.5°	2339.3	2284.9	2057.0	1253.1	615.1	471.1	436.8	416.8	396.7	388.2	383.3
25°	2435.6	2363.1	2020.8	1001.3	495.0	432.0	399.5	377.6	360.5	350.0	346.1
27.5°	2529.1	2428.9	1937.8	762.9	440.5	397.7	365.2	344.3	328.1	320.4	320.4
30°	2617.7	2493.8	1821.4	578.8	405.3	364.3	333.7	315.7	299.4	291.8	292.7
32.5°	2737.9	2575.8	1697.5	474.9	374.7	332.8	305.1	288.0	273.7	267.9	267.9
35°	2904.8	2696.9	1590.7	466.4	349.0	307.1	279.4	263.2	248.9	244.2	244.2
37.5°	3141.3	2892.4	1534.4	523.6	328.1	284.2	258.4	241.3	228.0	224.1	223.1
40°	3433.1	3157.5	1565.0	580.8	313.8	264.1	239.3	222.2	210.7	206.0	205.0
42.5°	3779.3	3484.6	1733.7	624.6	304.2	247.0	221.3	202.1	194.5	192.6	192.6
45°	4177.0	3844.2	1992.2	671.4	288.9	230.8	203.2	188.8	183.1	182.1	181.2
47.5°	4629.0	4239.0	2291.6	729.5	273.7	215.6	188.8	179.3	174.6	172.6	172.6
50°	5077.2	4636.6	2599.6	762.0	261.3	201.2	177.4	169.7	165.9	165.0	165.0
52.5°	5546.4	5045.8	2848.6	731.4	250.8	189.7	167.8	162.2	158.3	157.3	157.3
55°	5993.7	5376.6	2891.4	620.8	229.8	178.4	157.3	154.5	149.8	149.8	148.7
57.5°	6379.0	5542.6	2588.2	455.8	208.9	161.1	146.9	144.0	140.2	139.2	138.3
60°	6732.7	5494.9	1997.9	307.1	185.9	144.0	133.6	131.6	127.8	123.0	122.1
62.5°	6932.1	5285.1	1366.5	200.3	163.1	125.9	118.3	117.3	108.8	99.2	97.3
65°	7007.4	4854.1	852.6	145.9	136.3	107.7	102.1	100.1	87.7	77.3	76.3
67.5°	6941.6	4144.6	430.1	115.4	107.7	89.7	83.9	83.9	75.3	65.8	64.9
70°	6678.4	3107.0	181.2	92.5	82.9	68.7	68.7	72.5	63.9	53.4	52.5
72.5°	6107.2	2090.4	96.4	70.5	62.0	48.6	56.3	59.1	50.5	40.1	40.1
75°	4855.0	1275.0	66.7	52.5	39.1	34.3	42.9	44.8	34.3	26.8	25.7
77.5°	3320.6	732.4	44.8	33.4	24.8	20.0	29.5	27.7	18.1	12.4	13.3
80°	1458.2	305.1	25.7	15.3	9.5	7.6	10.5	7.6	5.7	3.8	3.8
82.5°	170.7	71.5	9.5	5.7	3.8	1.9	0.9	0.0	0.0	0.0	0.0
85°	35.3	8.6	4.8	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)