

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: P882556

Luminaire Tested: **NVN-SB2C-727-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882556
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-SB2C-727-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA 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: 10101 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

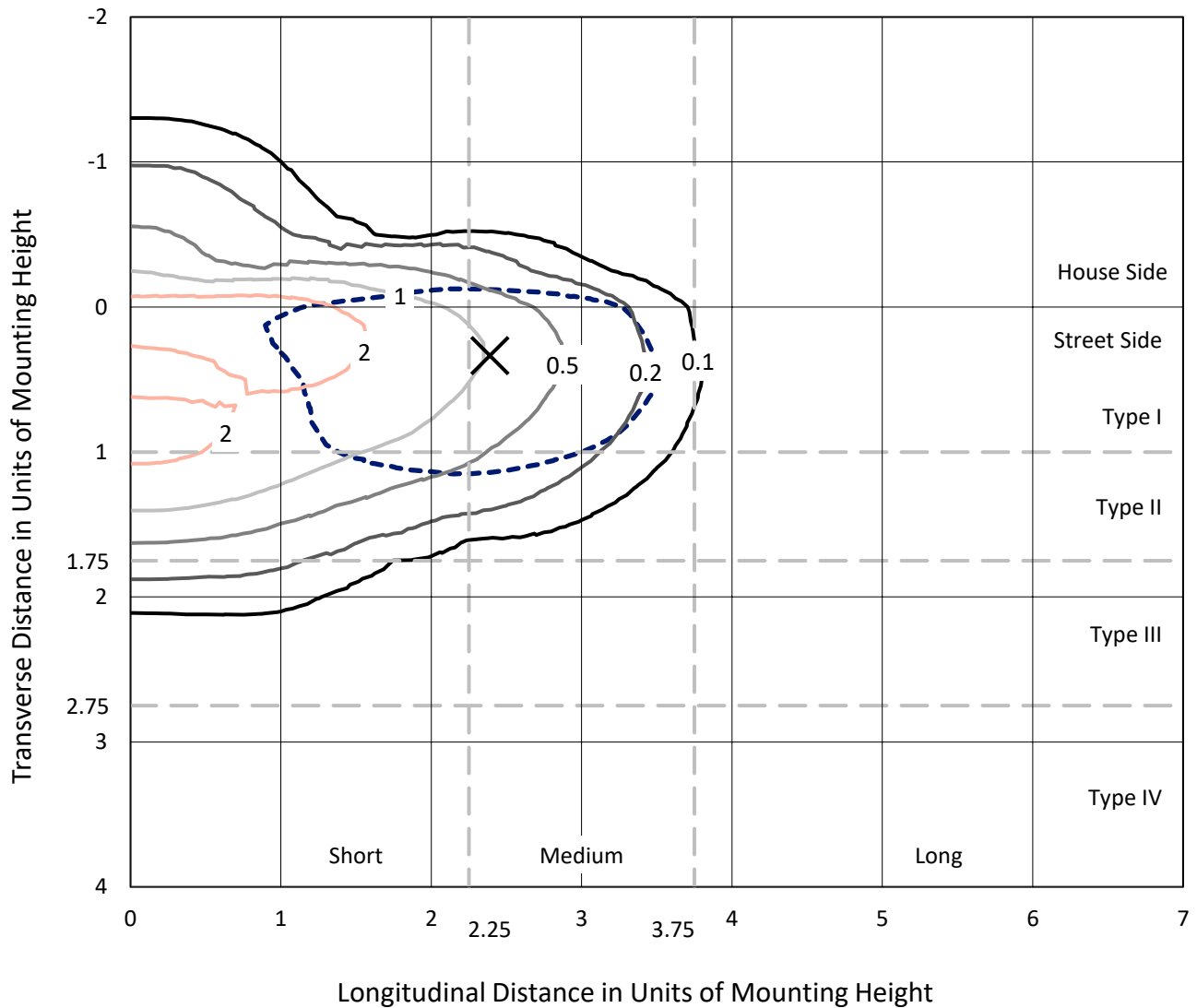
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

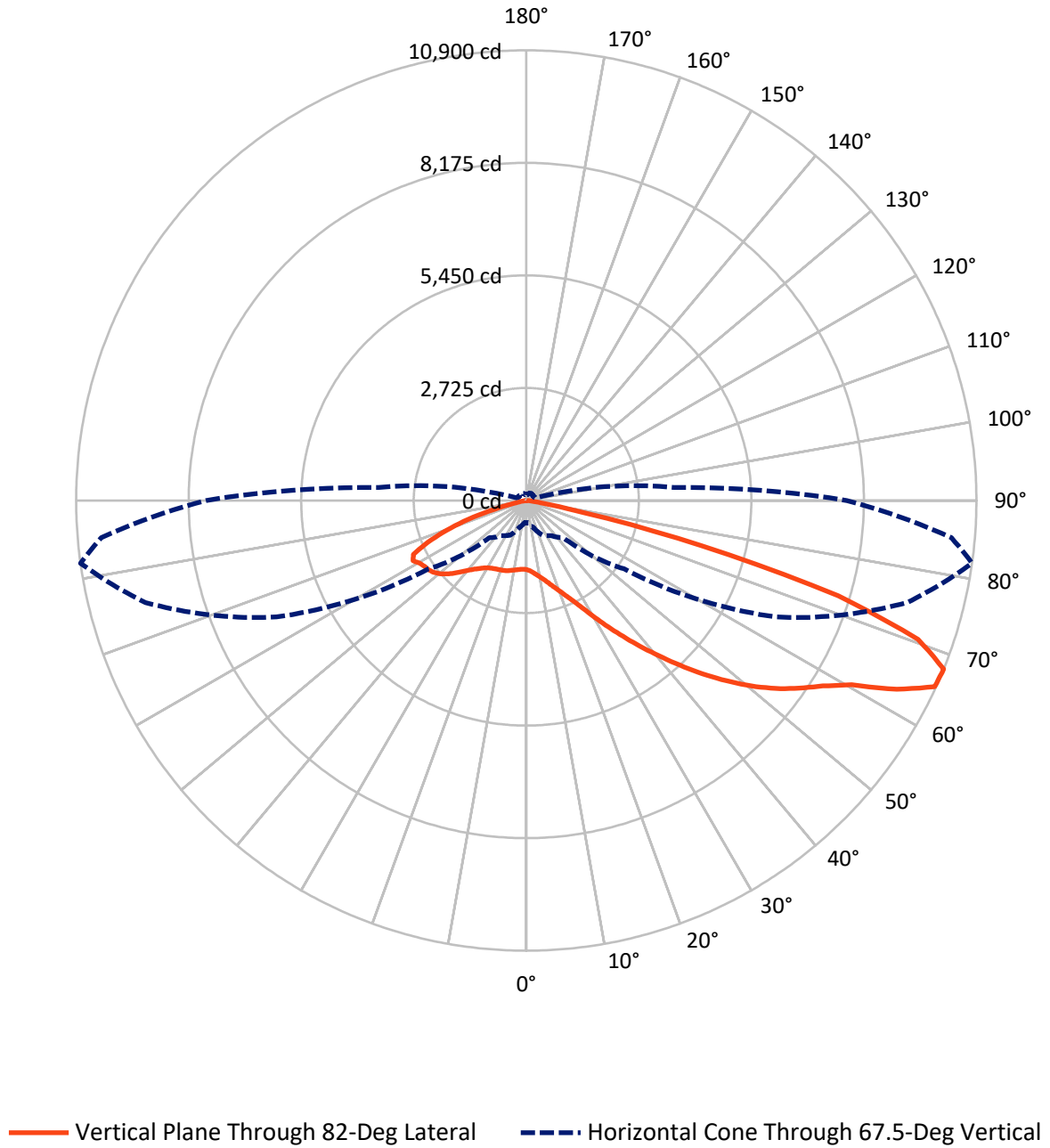
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1829.7	0.0	1829.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	8271.3	0.0	8271.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	10101.0	0.0	10101.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	1.5
10°-20°	387.4	3.8
20°-30°	620.5	6.1
30°-40°	1097.3	10.9
40°-50°	1922.5	19.0
50°-60°	2564.1	25.4
60°-70°	2387.1	23.6
70°-80°	916.1	9.1
80°-90°	56.9	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°	10101.0	100.0
0°-180°	10101.0	100.0

Coefficient of Utilization



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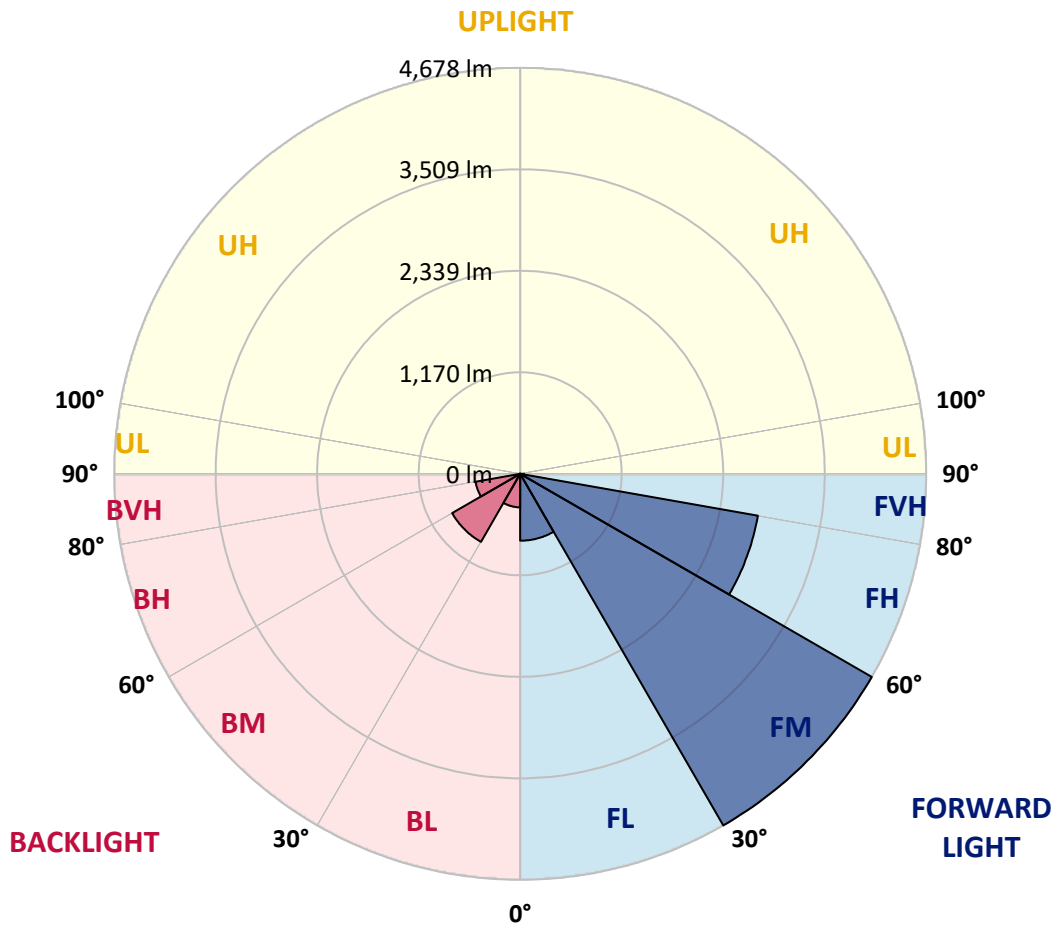
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.6	7.6			
FM (30°-60°)	4678.4	46.3			
FH (60°-80°)	2781.0	27.5			G2/5000
FVH (80°-90°)	41.4	0.4			G1/100
BL (0°-30°)	386.4	3.8	B1/500		
BM (30°-60°)	905.5	9.0	B1/1000		
BH (60°-80°)	522.2	5.2	B2/1000		G2/1000
BVH (80°-90°)	15.5	0.2			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4
2.5°	1768.7	1778.8	1773.0	1770.1	1765.0	1757.8	1751.9	1733.8	1714.8	1702.5	1698.1
5°	1804.3	1814.5	1813.8	1816.7	1820.3	1822.5	1821.0	1800.7	1773.8	1752.7	1740.3
7.5°	1773.8	1785.4	1794.8	1809.4	1834.8	1861.8	1874.8	1870.5	1842.8	1813.8	1798.5
10°	1687.2	1699.6	1722.1	1756.3	1810.1	1868.3	1917.0	1939.6	1922.1	1890.1	1869.0
12.5°	1528.7	1541.0	1585.4	1659.6	1749.8	1850.8	1943.9	2004.3	2008.7	1976.7	1951.9
15°	1350.5	1362.9	1410.1	1503.2	1640.7	1802.8	1958.5	2072.7	2111.2	2083.6	2053.7
17.5°	1240.0	1250.9	1286.5	1361.4	1504.7	1706.8	1953.4	2145.4	2233.4	2211.6	2175.9
20°	1206.5	1216.0	1232.7	1285.0	1404.3	1607.2	1919.9	2213.7	2365.0	2352.6	2312.6
22.5°	1242.1	1250.9	1256.0	1279.2	1354.1	1541.8	1877.8	2283.6	2517.7	2519.2	2470.5
25°	1324.3	1333.0	1327.2	1341.8	1374.5	1521.4	1861.8	2365.7	2709.7	2725.7	2670.4
27.5°	1459.6	1460.3	1446.5	1445.8	1450.9	1551.9	1878.5	2453.7	2951.9	2981.7	2913.3
30°	1730.8	1719.9	1666.8	1609.4	1583.2	1643.6	1925.0	2557.7	3237.7	3290.8	3205.0
32.5°	2149.0	2133.0	2035.6	1898.1	1759.9	1791.2	2008.7	2676.3	3549.0	3645.0	3540.2
35°	2602.8	2598.5	2496.6	2292.3	2050.8	2001.4	2144.6	2831.9	3888.6	4041.3	3916.9
37.5°	3024.6	3022.4	2964.3	2723.5	2429.7	2294.5	2362.8	3035.5	4252.2	4473.3	4326.4
40°	3410.1	3416.6	3358.4	3143.2	2847.2	2670.4	2659.5	3287.2	4656.6	4943.8	4769.3
42.5°	3743.1	3750.4	3691.5	3532.2	3259.5	3086.4	3023.9	3595.5	5051.5	5449.3	5242.7
45°	3969.3	4014.4	4005.7	3878.4	3682.8	3503.1	3461.7	3982.4	5501.6	5985.2	5743.1
47.5°	4033.3	4074.8	4140.2	4157.7	4038.4	3861.7	3911.1	4448.6	5956.9	6521.9	6246.3
50°	3875.5	3914.0	4050.0	4231.1	4314.0	4259.5	4348.2	4948.2	6423.0	7057.2	6740.1
52.5°	3564.2	3603.5	3775.1	4061.7	4399.8	4571.5	4786.7	5440.5	6874.7	7564.1	7207.7
55°	3114.1	3155.5	3375.9	3700.2	4236.2	4700.2	5152.5	5932.1	7288.5	8020.1	7629.5
57.5°	2501.7	2532.3	2761.4	3215.2	3824.6	4572.2	5422.3	6468.9	7678.3	8468.1	8047.7
60°	1630.5	1657.4	1923.6	2429.7	3142.4	4144.6	5476.2	7067.4	8196.1	9050.6	8611.3
62.5°	1084.3	1102.5	1260.3	1631.9	2213.0	3323.5	5161.3	7545.2	8955.3	10064.4	9577.8
65°	744.0	762.2	920.0	1178.9	1429.8	2198.5	4255.8	7481.9	9643.3	10869.4	10294.2
67.5°	530.9	546.2	680.0	924.3	1034.9	1277.0	2885.0	6673.2	9544.4	10900.0	10332.7
70°	380.3	389.1	499.6	720.0	822.5	767.2	1604.3	5103.8	8356.8	10065.1	9545.8
72.5°	266.2	269.1	346.9	548.3	662.5	560.0	763.6	3402.8	6320.5	7900.1	7400.5
75°	180.4	184.0	233.4	402.2	531.6	427.6	404.3	1824.7	3710.4	4372.9	3919.9
77.5°	110.5	112.0	150.5	274.9	397.8	325.8	260.4	773.1	1435.6	1409.4	1201.4
80°	62.5	62.5	96.0	170.9	271.3	210.2	182.5	328.7	454.5	399.3	352.0
82.5°	34.9	35.6	69.8	106.2	179.6	124.4	100.4	152.0	196.4	173.8	151.3
85°	14.5	16.0	42.9	50.2	85.8	61.8	40.7	64.0	72.7	64.7	47.3
87.5°	1.5	2.2	13.1	9.5	10.2	12.4	5.8	12.4	10.2	10.2	7.3
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°	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4	1673.4
2.5°	1684.3	1673.4	1645.8	1613.8	1571.6	1551.2	1523.6	1504.7	1488.7	1490.1	1475.6
5°	1717.0	1689.4	1627.6	1550.5	1454.5	1386.1	1313.4	1263.2	1222.5	1213.8	1194.1
7.5°	1762.1	1718.5	1610.1	1471.2	1309.0	1186.1	1076.3	1005.8	955.6	939.6	923.6
10°	1820.3	1757.0	1587.6	1371.6	1138.1	981.8	864.0	808.7	774.5	762.9	754.2
12.5°	1887.9	1801.4	1557.8	1250.1	962.1	811.6	736.7	709.1	698.2	694.5	692.3
15°	1973.0	1856.7	1512.7	1106.1	813.1	707.6	675.6	672.0	673.4	672.0	671.2
17.5°	2074.1	1917.0	1439.2	957.8	712.7	654.5	642.9	645.8	649.4	648.7	647.2
20°	2184.6	1976.7	1345.4	826.2	644.3	616.7	610.2	613.1	616.0	614.5	613.8
22.5°	2310.5	2040.7	1241.4	723.6	598.5	581.8	574.5	575.3	575.3	572.3	570.9
25°	2461.0	2111.2	1132.3	650.9	563.6	550.5	541.8	538.9	534.5	525.8	524.3
27.5°	2640.6	2186.1	1027.6	600.0	536.0	523.6	513.4	506.2	495.3	480.7	479.3
30°	2842.8	2277.0	938.9	568.0	514.2	501.8	490.2	479.3	463.3	445.1	443.6
32.5°	3080.6	2374.5	874.2	546.9	494.5	481.4	467.6	454.5	437.1	418.9	419.6
35°	3364.2	2492.3	836.3	532.3	479.3	461.8	446.5	432.0	418.9	402.9	401.4
37.5°	3671.9	2617.4	824.7	525.1	469.1	442.2	424.7	414.5	413.1	403.6	402.9
40°	4008.6	2765.7	833.4	520.7	458.2	423.3	404.3	402.2	405.8	389.1	389.8
42.5°	4364.9	2941.7	848.0	515.6	442.9	404.3	386.2	386.2	383.3	360.0	360.0
45°	4750.4	3144.6	862.5	503.3	424.7	385.4	371.6	366.5	354.2	331.6	330.9
47.5°	5138.7	3351.2	873.4	480.7	402.9	369.4	357.1	345.4	327.3	306.9	306.2
50°	5507.4	3536.6	861.8	447.3	378.2	354.2	341.1	325.1	305.4	291.6	289.4
52.5°	5836.9	3697.3	812.3	408.0	352.0	338.2	326.5	309.8	293.8	279.3	277.8
55°	6123.4	3827.5	725.1	370.9	328.7	324.4	312.7	291.6	269.8	257.4	256.0
57.5°	6398.3	3926.4	616.0	340.4	307.6	309.1	291.6	272.7	252.4	239.3	237.8
60°	6764.1	4058.8	505.4	312.0	285.1	289.4	270.5	256.7	231.3	214.5	212.4
62.5°	7348.8	4264.6	401.4	277.1	258.9	260.4	252.4	235.6	205.1	185.4	184.0
65°	7812.8	4188.9	316.4	239.3	229.1	231.3	231.3	213.1	180.4	157.8	155.6
67.5°	7760.4	3586.8	252.4	202.2	200.7	202.2	207.3	192.0	160.0	141.8	138.9
70°	7148.8	2853.0	202.2	168.0	174.5	170.9	185.4	175.3	144.0	125.8	123.6
72.5°	5833.2	2055.2	154.2	138.9	133.8	139.6	167.3	157.8	120.0	99.6	97.5
75°	3408.6	1096.7	114.9	109.8	96.7	116.4	148.4	134.5	91.6	73.5	71.3
77.5°	1109.8	382.5	84.4	80.7	72.0	93.8	126.5	113.5	74.9	58.2	56.0
80°	297.4	115.6	57.5	53.1	46.5	69.8	100.4	90.2	53.8	37.8	37.1
82.5°	119.3	48.7	33.5	29.8	25.5	48.0	79.3	72.7	40.0	24.0	24.0
85°	38.5	16.0	12.4	9.5	11.6	29.8	47.3	49.5	28.4	12.4	9.5
87.5°	5.1	2.2	2.2	2.9	2.2	5.1	14.5	13.8	8.0	1.5	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)