

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: P270837

Luminaire Tested: **NVN-AF-02-LED-U-SL3-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270837
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24263)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-AF-02-LED-U-SL3-7027-800-HSS
Description: NAVION ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7258 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
Input Voltage (V): NR
Input Current (A_{in}): 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: 28.75 FT

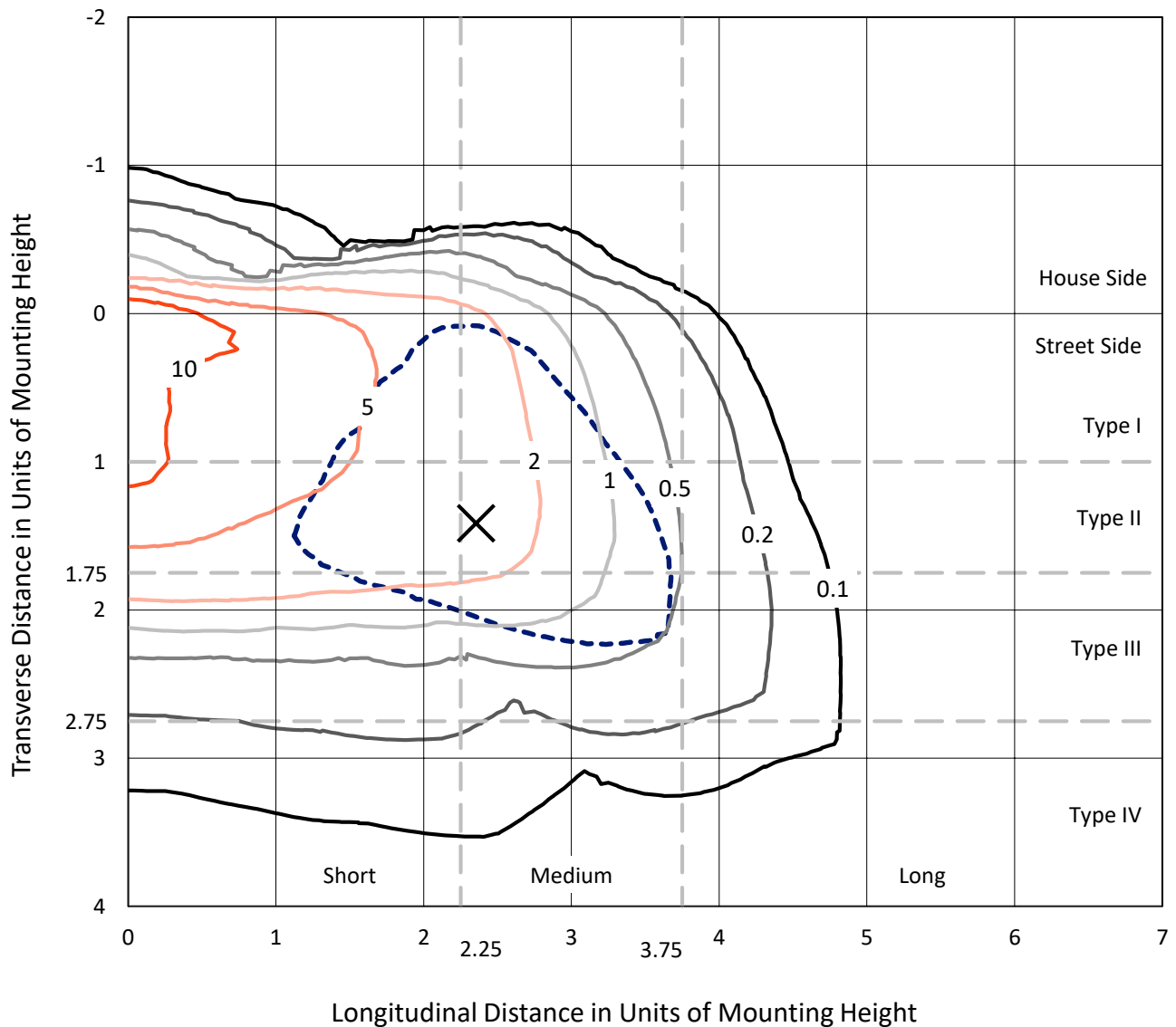


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

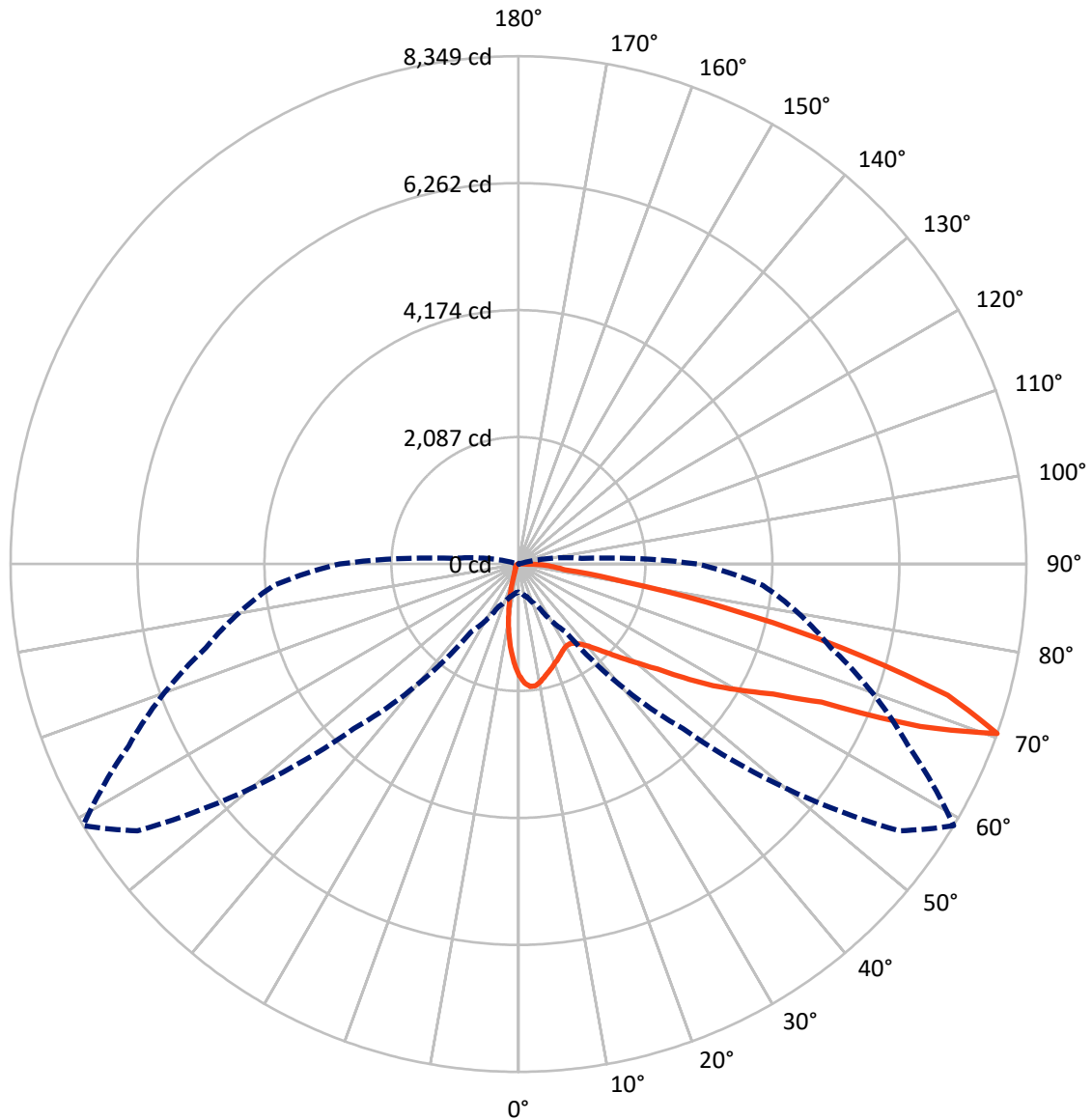


Based on 10 foot mounting height. Maximum calculated value = 19.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	558.0	0.0	558.0
	% Fixture	7.7	0.0	7.7
Street Side	Lumens	6700.1	0.0	6700.1
	% Fixture	92.3	0.0	92.3
Total	Lumens	7258.0	0.0	7258.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.9	2.1
10°-20°	316.5	4.4
20°-30°	428.5	5.9
30°-40°	618.4	8.5
40°-50°	1027.0	14.1
50°-60°	1570.9	21.6
60°-70°	1953.8	26.9
70°-80°	1080.1	14.9
80°-90°	112.0	1.5
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°	7258.0	100.0
0°-180°	7258.0	100.0



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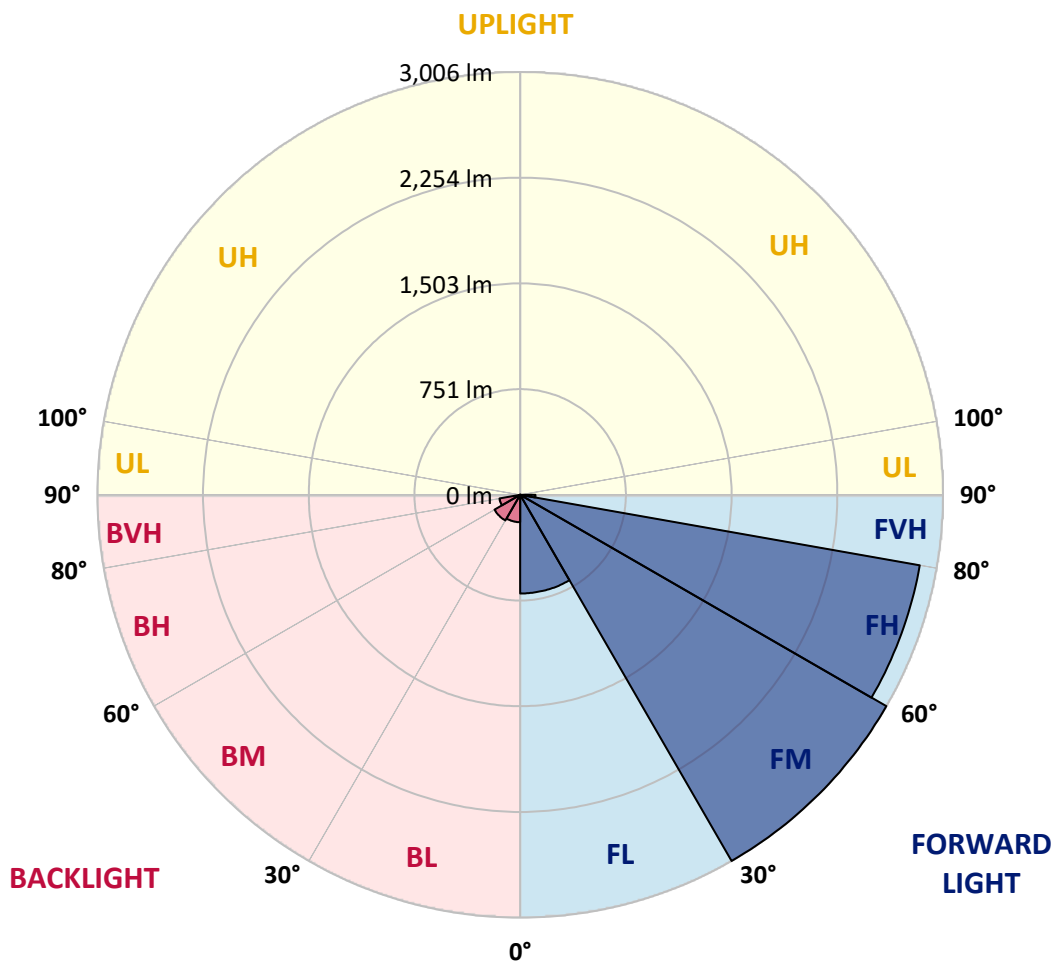
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.5	9.7			
FM (30°-60°)	3005.6	41.4			
FH (60°-80°)	2884.2	39.7			G2/5000
FVH (80°-90°)	108.8	1.5			G2/225
BL (0°-30°)	194.4	2.7	B1/500		
BM (30°-60°)	210.6	2.9	B0/220		
BH (60°-80°)	149.7	2.1	B1/500		G1/500
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2
2.5°	2074.5	2071.3	2057.6	2054.9	2039.5	2008.9	1973.2	1959.1	1930.0	1884.0	1833.1
5°	2109.1	2110.7	2111.7	2105.7	2103.7	2078.4	2039.1	2022.1	1983.2	1907.6	1814.4
7.5°	1979.9	1984.3	1997.9	2003.8	2030.2	2040.1	2031.8	2020.8	1990.3	1901.1	1770.1
10°	1843.5	1851.8	1866.5	1876.4	1908.7	1934.9	1968.4	1971.2	1964.6	1879.2	1720.3
12.5°	1726.4	1734.0	1750.4	1770.1	1803.0	1836.9	1886.8	1904.2	1926.1	1864.9	1684.7
15°	1625.7	1627.8	1643.7	1668.3	1711.6	1758.2	1817.2	1843.0	1885.7	1859.4	1657.4
17.5°	1537.4	1538.0	1548.4	1570.9	1623.3	1684.7	1753.8	1787.6	1841.9	1851.8	1633.3
20°	1479.4	1478.9	1479.4	1491.5	1538.0	1610.8	1694.7	1730.1	1799.8	1842.5	1608.7
22.5°	1459.7	1457.1	1444.4	1440.1	1469.5	1533.6	1633.7	1680.4	1761.9	1839.6	1590.5
25°	1483.8	1482.2	1455.3	1430.1	1432.8	1472.9	1571.9	1628.8	1732.4	1849.5	1586.1
27.5°	1561.6	1558.3	1517.1	1467.9	1436.7	1443.8	1526.0	1585.6	1708.8	1873.7	1592.2
30°	1663.4	1663.9	1620.2	1560.4	1487.1	1446.6	1501.2	1557.8	1692.9	1909.7	1605.4
32.5°	1776.7	1776.2	1745.0	1676.0	1582.4	1496.9	1512.2	1559.8	1695.1	1962.8	1630.6
35°	1893.8	1887.9	1877.5	1816.7	1707.1	1585.1	1562.2	1597.1	1718.1	2033.0	1673.3
37.5°	2029.1	2026.9	2037.4	1973.2	1861.6	1714.9	1649.6	1673.3	1776.2	2136.3	1742.3
40°	2244.2	2232.3	2237.1	2150.2	2035.6	1889.6	1772.4	1778.4	1868.7	2273.3	1851.1
42.5°	2654.4	2605.7	2514.3	2351.0	2227.3	2083.3	1932.8	1922.4	1999.5	2439.2	1994.6
45°	3144.4	3088.6	2858.0	2572.8	2419.0	2291.3	2131.0	2103.0	2160.6	2636.9	2179.6
47.5°	3553.4	3493.1	3187.6	2804.4	2613.9	2506.0	2350.5	2317.6	2353.3	2866.3	2402.0
50°	3693.0	3659.7	3391.5	2997.1	2810.4	2746.9	2625.9	2571.2	2579.9	3113.7	2661.5
52.5°	3629.1	3617.5	3438.0	3129.1	2992.3	3013.1	2927.5	2870.2	2860.3	3384.3	2948.3
55°	3493.8	3488.3	3400.7	3202.5	3152.6	3256.6	3350.9	3301.0	3207.9	3671.7	3185.5
57.5°	3300.5	3321.3	3384.3	3343.8	3349.8	3514.0	3744.0	3769.6	3630.6	3900.6	3361.3
60°	2784.1	2840.0	3128.5	3495.3	3776.3	3942.2	4165.0	4213.2	3988.7	4057.1	3564.4
62.5°	2058.1	2138.1	2549.3	3223.3	4011.1	4756.3	4725.2	4703.7	4330.4	4266.9	3933.9
65°	1208.8	1302.5	1650.2	2518.6	3656.9	5279.8	5770.9	5475.2	4851.0	4702.6	4522.5
67.5°	602.3	602.9	760.0	1329.4	2702.6	4914.5	7297.4	7126.6	5958.2	5344.9	4754.6
70°	463.2	475.8	562.2	772.5	1366.6	3827.8	7647.4	8348.7	7070.6	5316.4	4034.2
72.5°	392.6	400.7	500.4	672.3	1021.7	2101.3	6620.1	7379.5	6747.1	4491.9	2973.6
75°	282.5	289.1	443.0	609.9	940.6	1042.6	4541.1	5473.1	5062.4	3159.8	1636.5
77.5°	70.1	69.4	154.4	495.0	841.5	868.4	2605.7	3509.6	2904.6	1293.7	420.4
80°	31.3	30.2	35.0	104.1	783.0	819.7	1146.0	1772.4	1114.2	209.8	128.6
82.5°	21.9	20.8	21.9	38.3	261.8	760.5	692.7	768.2	407.9	71.8	54.7
85°	7.1	6.6	12.0	32.2	73.4	438.6	675.6	573.7	303.4	30.6	36.7
87.5°	1.1	1.1	4.4	17.5	21.4	146.2	396.4	397.5	136.4	18.1	16.3
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°	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2	1835.2
2.5°	1807.4	1775.1	1729.6	1684.2	1643.1	1601.0	1567.1	1551.2	1544.0	1534.1	1512.8
5°	1765.8	1707.1	1607.5	1509.5	1418.1	1330.5	1255.6	1212.7	1166.8	1164.7	1142.1
7.5°	1699.0	1615.7	1458.6	1306.3	1166.8	1033.2	918.2	843.8	792.8	761.0	739.1
10°	1624.6	1517.7	1309.6	1095.7	905.6	727.1	579.2	482.8	424.3	394.7	377.7
12.5°	1565.3	1431.2	1162.9	893.5	655.5	450.6	313.1	243.1	211.9	199.9	194.4
15°	1514.5	1351.8	1025.5	712.9	437.5	259.0	181.2	158.2	153.3	153.3	152.7
17.5°	1463.0	1275.1	891.8	535.5	275.4	169.7	142.9	139.6	140.1	141.8	141.8
20°	1414.2	1202.3	763.2	381.6	180.6	135.7	129.7	128.6	130.3	132.5	132.0
22.5°	1374.9	1138.3	642.7	262.2	139.1	123.2	119.4	117.7	118.8	120.5	120.0
25°	1346.9	1083.5	532.2	182.8	121.0	112.3	107.8	105.7	104.7	105.7	105.1
27.5°	1329.9	1037.5	428.1	137.4	108.4	101.2	95.8	91.4	88.8	88.8	87.7
30°	1319.0	994.3	335.6	113.8	98.1	90.3	82.6	76.6	72.3	71.1	70.6
32.5°	1318.4	957.1	250.7	100.7	88.2	79.4	70.1	62.4	57.5	56.5	55.9
35°	1332.1	927.0	184.5	90.9	79.4	69.0	58.6	50.3	46.1	46.1	45.5
37.5°	1367.7	909.4	139.6	83.3	72.3	60.2	49.2	41.6	37.8	38.8	38.8
40°	1434.0	906.1	113.8	77.3	66.3	52.6	40.0	34.0	32.2	34.0	34.0
42.5°	1535.3	923.6	101.2	72.9	60.7	44.8	33.3	29.0	28.4	30.2	30.2
45°	1667.3	958.1	94.2	69.0	54.7	37.2	27.9	25.2	24.7	26.8	26.8
47.5°	1827.2	1004.8	87.7	64.6	48.7	30.6	23.5	21.4	21.4	23.5	24.1
50°	2016.5	1067.6	81.0	60.2	43.7	25.7	19.8	18.1	18.7	20.8	21.4
52.5°	2234.4	1144.9	75.0	56.5	38.3	20.8	16.3	15.4	15.9	18.1	18.7
55°	2422.2	1212.3	67.9	52.6	31.3	17.0	13.7	13.1	13.7	16.3	16.3
57.5°	2586.0	1276.9	61.4	46.5	24.7	13.7	11.0	11.0	12.0	14.8	15.4
60°	2803.3	1378.7	55.9	39.4	18.7	10.4	8.8	9.3	11.0	13.1	13.7
62.5°	3188.3	1551.7	48.7	32.9	13.7	8.3	7.1	7.6	9.8	12.5	13.1
65°	3670.0	1715.5	40.6	27.4	10.4	6.0	5.5	7.1	9.8	12.5	13.1
67.5°	3620.8	1492.1	31.8	21.9	7.6	4.9	4.4	6.6	9.3	12.5	13.1
70°	2936.4	1045.7	23.5	14.8	6.0	4.4	4.4	6.6	9.3	12.0	12.5
72.5°	2036.7	582.0	18.1	9.8	5.5	4.4	3.9	6.0	8.8	12.0	12.5
75°	969.1	178.6	14.3	7.1	4.9	3.9	3.2	6.0	8.8	12.0	12.5
77.5°	186.2	45.5	11.5	6.0	4.4	3.9	3.2	5.5	8.8	11.5	12.0
80°	63.1	20.2	9.3	5.5	4.4	3.9	3.2	5.5	8.3	11.0	11.5
82.5°	34.5	11.5	8.3	4.9	4.4	3.2	2.8	4.9	7.6	11.0	11.5
85°	26.8	8.3	6.6	4.9	4.4	3.2	2.8	4.9	7.6	10.4	11.0
87.5°	13.7	6.0	5.5	4.9	4.4	3.2	2.8	4.4	7.1	9.8	11.0
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)