

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: P961546

Luminaire Tested: **NVN-SB2A-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961546
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2A-830-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

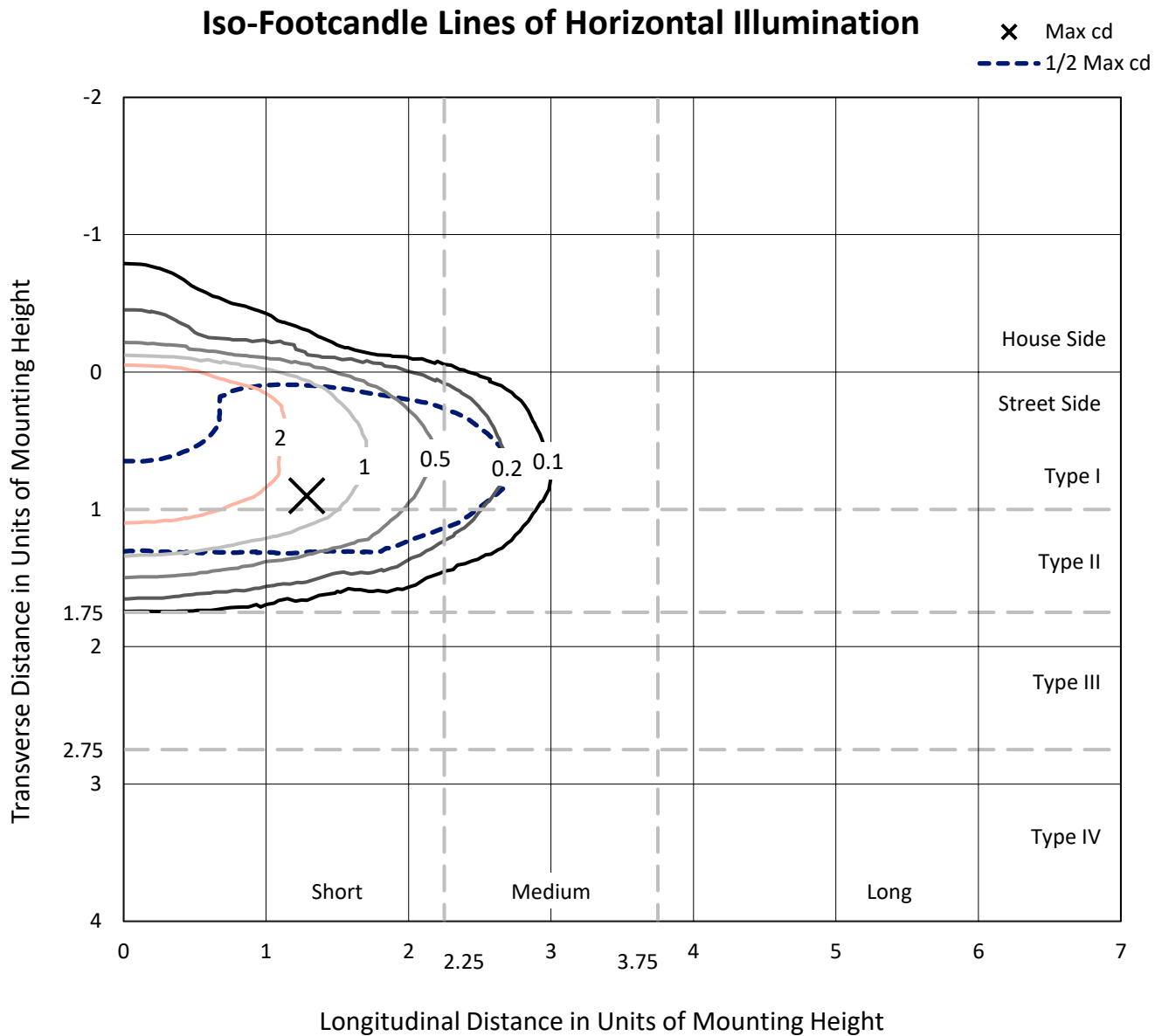
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7044.8 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 57.3
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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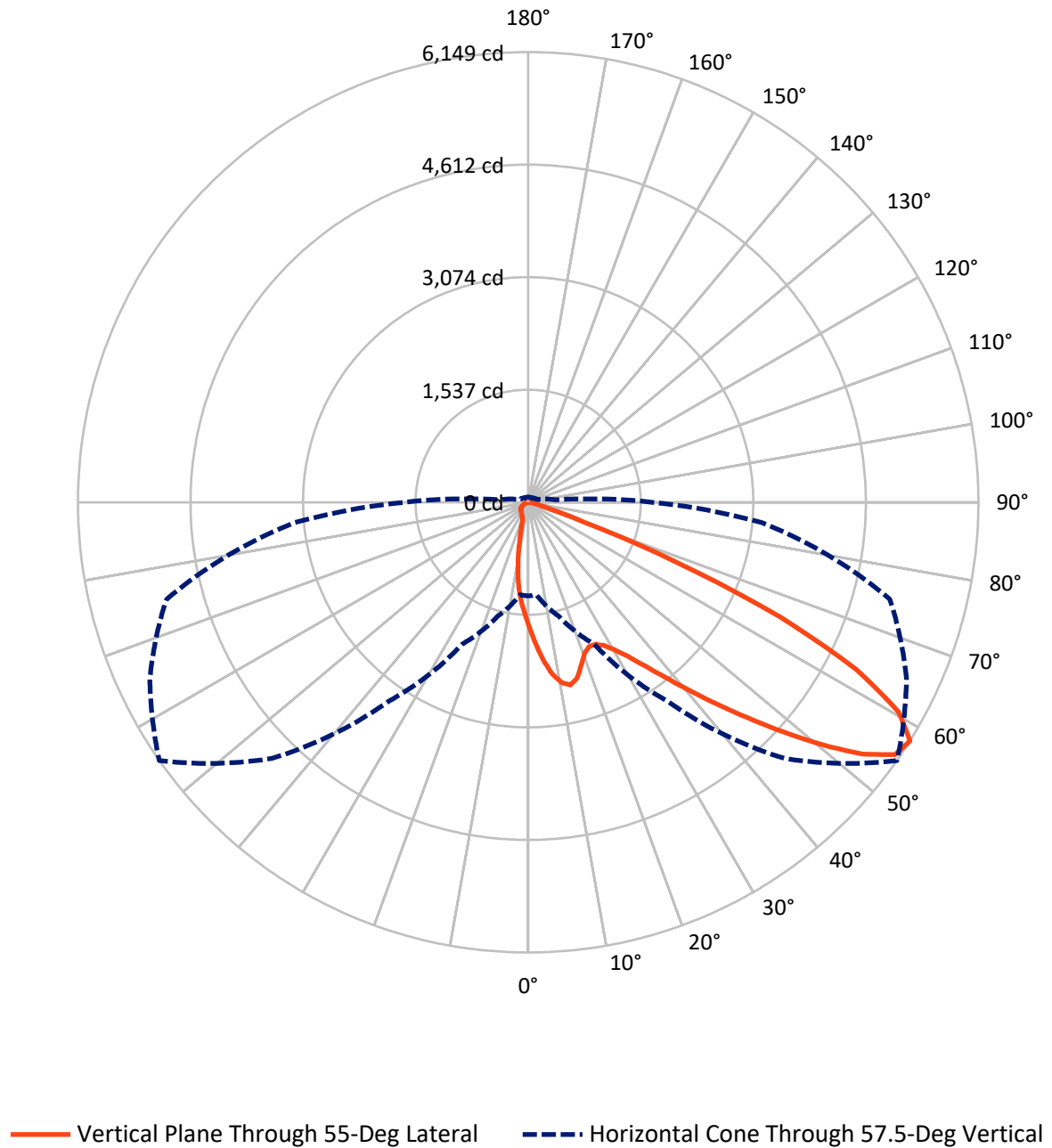


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	550.2	0.0	550.2
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	6494.6	0.0	6494.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	7044.8	0.0	7044.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.0	2.2
10°-20°	381.5	5.4
20°-30°	610.5	8.7
30°-40°	1033.2	14.7
40°-50°	1696.4	24.1
50°-60°	1864.4	26.5
60°-70°	1069.4	15.2
70°-80°	218.5	3.1
80°-90°	12.9	0.2
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°	7044.8	100.0
0°-180°	7044.8	100.0

Coefficient of Utilization



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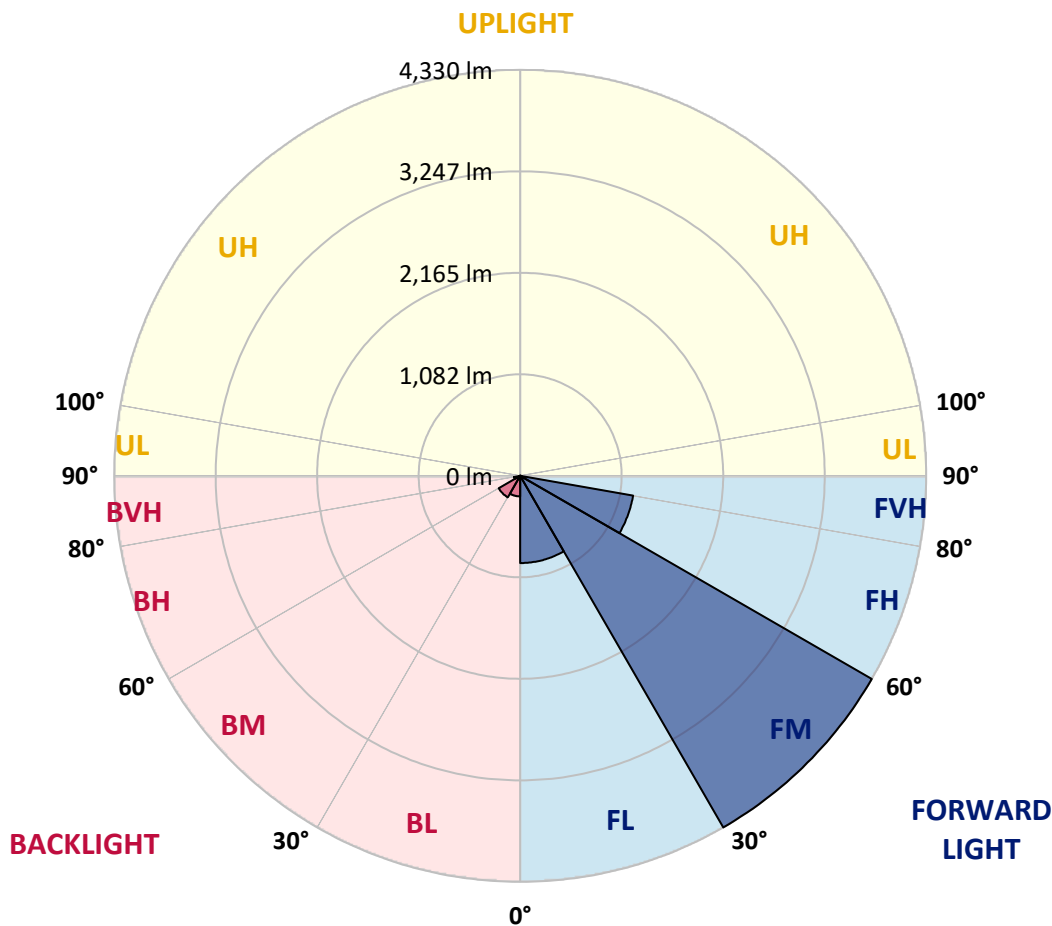
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	930.3	13.2			
FM	(30°-60°)	4329.8	61.5			
FH	(60°-80°)	1222.5	17.4			G1/1800
FVH	(80°-90°)	12.0	0.2			G1/100
BL	(0°-30°)	219.6	3.1	B1/500		
BM	(30°-60°)	264.2	3.8	B1/1000		
BH	(60°-80°)	65.4	0.9	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6
2.5°	2106.4	2079.9	2076.0	2070.8	2020.4	1982.6	1927.8	1868.0	1800.6	1731.9	1701.5
5°	2433.5	2412.6	2408.8	2384.5	2327.1	2262.8	2165.5	2042.5	1917.0	1769.4	1705.9
7.5°	2496.9	2493.0	2510.8	2509.9	2502.1	2451.3	2369.2	2222.8	2034.3	1815.4	1717.2
10°	2214.1	2224.1	2277.1	2323.6	2449.1	2522.1	2504.3	2383.5	2155.1	1868.0	1729.8
12.5°	1956.5	1944.8	1982.6	2035.1	2181.1	2398.3	2560.3	2517.8	2293.2	1927.4	1748.4
15°	1795.0	1790.2	1811.5	1835.8	1947.0	2165.9	2495.2	2626.8	2426.1	1997.8	1776.7
17.5°	1743.2	1739.3	1745.9	1751.9	1824.1	1993.4	2340.1	2693.7	2553.4	2078.2	1808.0
20°	1785.3	1780.1	1779.3	1774.5	1804.5	1920.0	2199.8	2698.5	2667.7	2151.2	1834.9
22.5°	1908.3	1902.2	1881.0	1861.8	1864.5	1930.1	2137.2	2650.6	2753.7	2219.3	1851.9
25°	2131.2	2121.1	2076.9	2012.6	1971.7	1999.6	2146.8	2587.7	2835.8	2272.7	1843.6
27.5°	2410.1	2397.0	2340.1	2244.5	2151.2	2117.2	2215.8	2544.3	2903.9	2313.6	1825.7
30°	2683.2	2666.3	2610.3	2536.1	2399.6	2292.7	2340.6	2563.4	2985.2	2356.2	1802.4
32.5°	2978.2	2962.1	2887.8	2795.8	2682.8	2539.0	2511.2	2656.8	3084.6	2415.7	1785.9
35°	3351.3	3326.2	3220.7	3095.1	2975.2	2829.7	2742.4	2817.9	3217.2	2506.4	1795.0
37.5°	3776.2	3742.4	3628.5	3455.2	3298.9	3135.9	3023.9	3039.5	3411.3	2628.1	1823.2
40°	4176.8	4145.9	4040.8	3877.5	3681.1	3483.5	3363.9	3329.2	3679.3	2776.2	1872.7
42.5°	4416.9	4389.2	4344.9	4275.8	4110.2	3908.7	3758.0	3682.8	3996.5	2953.4	1933.0
45°	4430.5	4406.1	4465.6	4546.0	4513.4	4379.2	4195.4	4057.7	4314.8	3119.9	1995.7
47.5°	4215.0	4198.5	4379.2	4659.8	4799.7	4856.1	4686.7	4401.3	4577.6	3239.3	2021.3
50°	3627.7	3621.5	3993.4	4508.7	4908.7	5274.0	5205.0	4721.0	4781.4	3301.0	1996.9
52.5°	3145.5	3123.3	3340.1	4024.7	4750.2	5493.8	5711.5	5034.7	4923.9	3312.7	1940.0
55°	2385.7	2366.2	2638.1	3215.0	4238.9	5415.7	6082.0	5358.3	5026.0	3282.8	1837.9
57.5°	1279.7	1267.6	1611.2	2139.9	3313.6	4946.4	6148.9	5700.6	5112.0	3203.2	1695.0
60°	498.3	496.1	624.6	1038.2	2013.9	4024.3	5811.3	5906.0	5165.9	3105.5	1575.5
62.5°	301.5	308.0	328.8	466.1	889.6	2500.0	5033.4	5672.3	5201.9	3016.1	1476.9
65°	249.4	249.8	252.4	320.1	426.2	1046.0	3789.2	4903.5	5112.9	2856.6	1337.1
67.5°	213.7	217.6	227.7	254.1	300.6	458.7	2181.5	3798.3	4571.2	2485.6	1119.0
70°	168.5	173.7	186.3	208.9	232.0	287.1	806.3	2527.3	3492.2	1873.6	846.2
72.5°	142.1	141.7	148.1	169.8	184.2	202.0	310.2	1416.1	2029.5	894.4	418.7
75°	109.9	114.3	122.5	142.1	150.8	146.4	168.1	517.3	727.1	271.1	142.5
77.5°	86.0	89.5	96.9	116.0	124.6	103.8	96.9	185.0	233.7	97.3	64.3
80°	38.6	41.7	66.0	85.6	101.7	71.6	52.6	94.7	103.8	44.3	32.6
82.5°	7.0	11.7	38.6	45.2	52.2	46.4	27.4	49.1	50.8	17.8	11.3
85°	0.4	0.8	13.4	16.5	20.8	15.2	8.3	19.6	16.9	6.0	4.3
87.5°	0.0	0.0	0.0	0.4	0.4	2.2	2.6	3.5	2.6	2.2	1.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6	1697.6
2.5°	1670.2	1608.5	1548.7	1499.6	1470.9	1422.2	1390.1	1384.9	1371.3	1383.1
5°	1638.2	1527.8	1416.1	1316.2	1234.1	1128.1	1049.1	1015.7	986.6	996.5
7.5°	1622.9	1448.7	1275.0	1104.2	928.8	759.3	633.3	580.8	540.8	546.4
10°	1602.5	1366.6	1094.3	833.6	598.6	431.3	344.5	312.3	294.5	295.0
12.5°	1586.9	1268.4	884.5	565.2	364.5	275.4	248.5	240.7	235.4	235.9
15°	1579.0	1152.9	677.2	376.6	260.7	233.3	226.7	223.2	219.8	219.4
17.5°	1566.0	1024.3	495.7	275.0	228.1	218.5	212.9	208.9	204.6	203.8
20°	1546.4	878.3	362.3	232.4	213.7	206.3	198.5	193.3	188.1	187.3
22.5°	1510.4	724.2	278.5	215.0	203.3	195.1	185.5	179.4	174.1	173.3
25°	1443.5	579.5	234.6	204.2	194.1	184.2	173.7	165.5	160.7	159.9
27.5°	1358.8	455.2	212.9	194.1	182.4	173.3	161.6	153.8	149.4	148.5
30°	1258.9	350.5	200.3	182.9	168.5	160.7	150.3	143.8	141.1	141.1
32.5°	1151.2	280.2	195.1	171.6	156.4	147.7	139.4	136.8	136.0	135.5
35°	1049.9	243.2	192.4	162.5	145.5	137.2	133.8	134.3	136.0	136.0
37.5°	960.0	231.5	191.2	155.9	136.0	128.5	130.8	134.7	132.9	132.9
40°	878.8	232.9	190.2	151.2	128.1	123.8	128.1	125.2	120.7	120.3
42.5°	816.7	243.7	188.5	147.3	123.4	120.3	118.6	113.8	113.4	114.3
45°	771.5	253.3	188.1	145.5	118.2	112.5	110.3	105.6	114.3	116.4
47.5°	718.0	253.3	188.1	139.4	109.5	107.3	103.8	98.6	107.3	109.5
50°	649.0	237.2	180.7	132.5	102.5	101.2	95.1	88.7	86.9	88.1
52.5°	561.7	208.1	162.1	122.9	95.5	93.0	85.6	80.8	79.5	79.5
55°	462.2	174.1	136.8	109.1	88.1	83.4	78.2	76.1	74.7	73.8
57.5°	375.8	142.9	109.9	96.9	81.3	75.1	73.4	70.8	68.7	67.3
60°	308.4	112.5	90.8	86.0	74.3	68.7	68.2	64.7	59.0	58.2
62.5°	238.0	82.5	76.5	74.7	67.3	62.5	61.7	54.7	46.0	44.3
65°	168.1	64.3	61.7	65.6	60.0	55.6	53.4	43.0	33.9	32.6
67.5°	118.2	53.9	48.7	57.3	52.2	46.4	45.2	36.5	28.2	27.4
70°	84.3	43.9	40.0	49.1	41.7	40.8	38.2	30.4	23.1	22.1
72.5°	59.6	33.4	30.9	42.5	28.7	35.2	31.3	23.5	17.4	16.5
75°	43.9	23.9	21.7	24.8	20.8	26.5	22.1	15.7	10.9	10.5
77.5°	32.2	15.2	13.0	12.2	12.2	16.5	12.2	6.6	4.8	4.3
80°	22.5	7.0	6.0	5.2	4.8	3.9	1.7	0.8	0.4	0.4
82.5°	13.4	3.1	3.1	2.2	1.3	0.0	0.0	0.0	0.0	0.0
85°	3.1	1.3	1.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.4	0.4	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

(END OF REPORT)