

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: P964987

Luminaire Tested: **NVN-SB3D-722-U-AFL-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P964987  
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-SB3D-722-U-AFL-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA 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: 22042.6 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

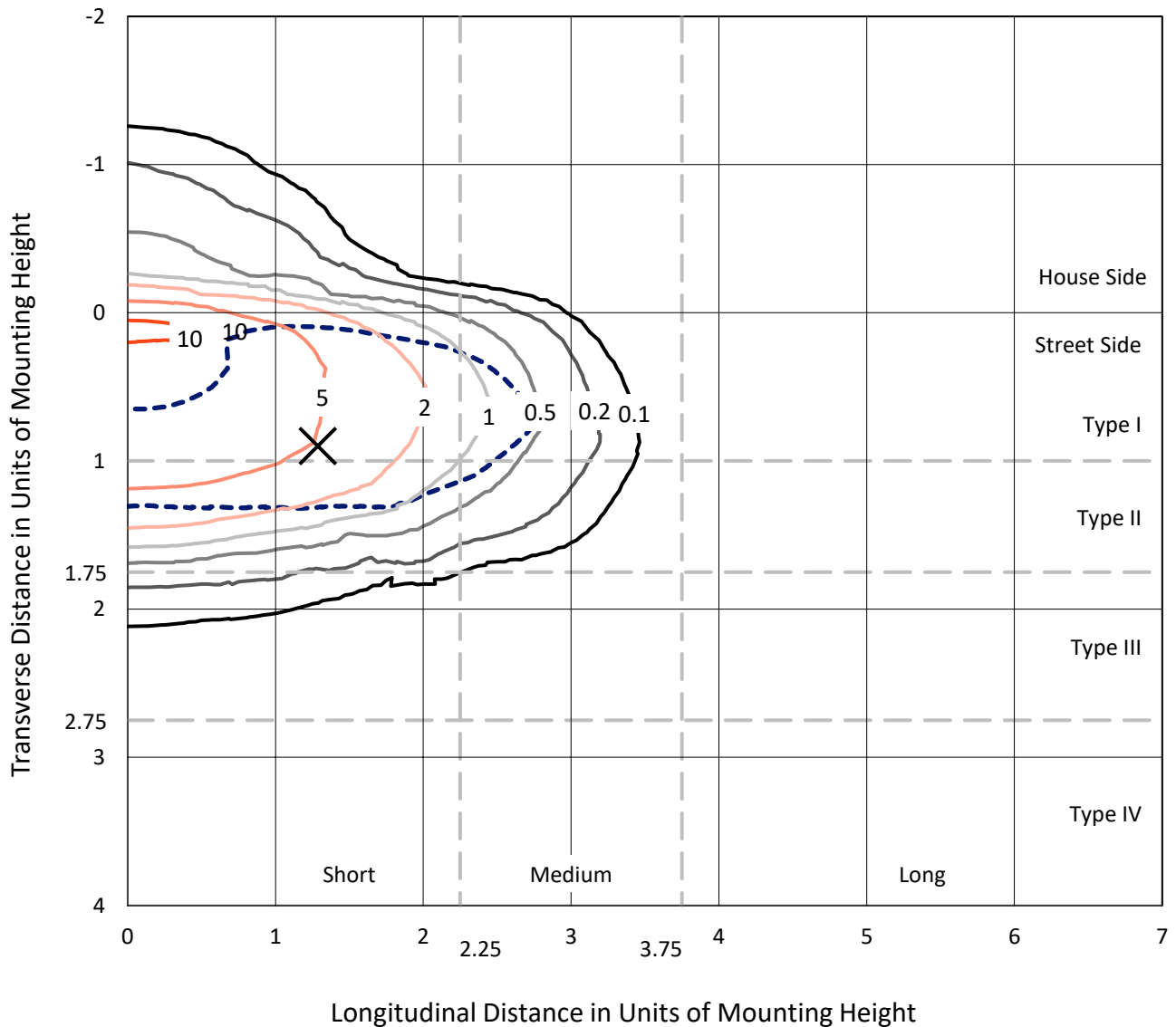
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

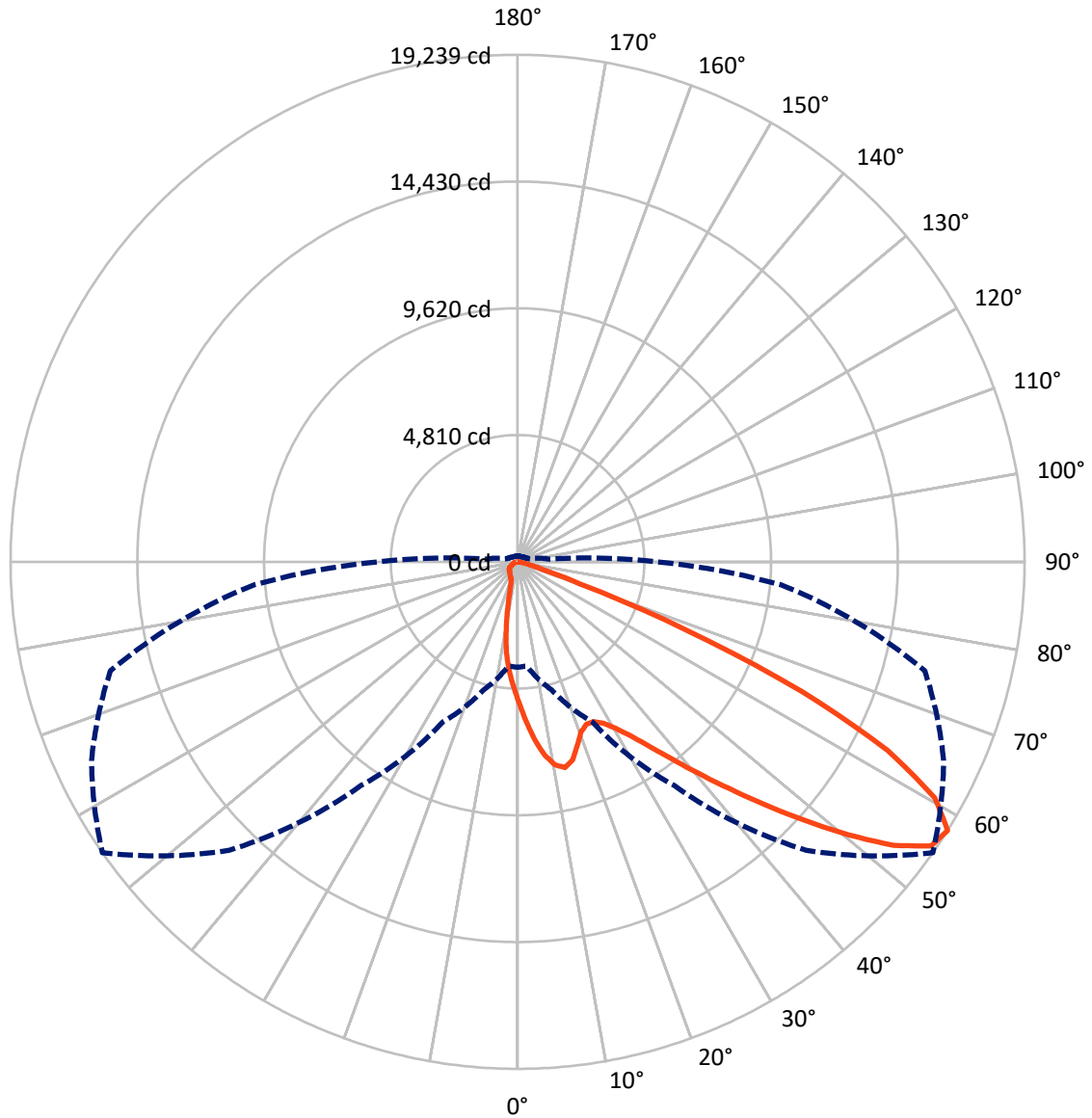
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1721.4	0.0	1721.4
	% Fixture	7.8	0.0	7.8
<b>Street Side</b>	Lumens	20321.2	0.0	20321.2
	% Fixture	92.2	0.0	92.2
<b>Total</b>	Lumens	22042.6	0.0	22042.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	494.2	2.2
10°-20°	1193.8	5.4
20°-30°	1910.1	8.7
30°-40°	3232.9	14.7
40°-50°	5307.8	24.1
50°-60°	5833.6	26.5
60°-70°	3346.2	15.2
70°-80°	683.7	3.1
80°-90°	40.3	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°	22042.6	100.0
0°-180°	22042.6	100.0

**Coefficient of Utilization**

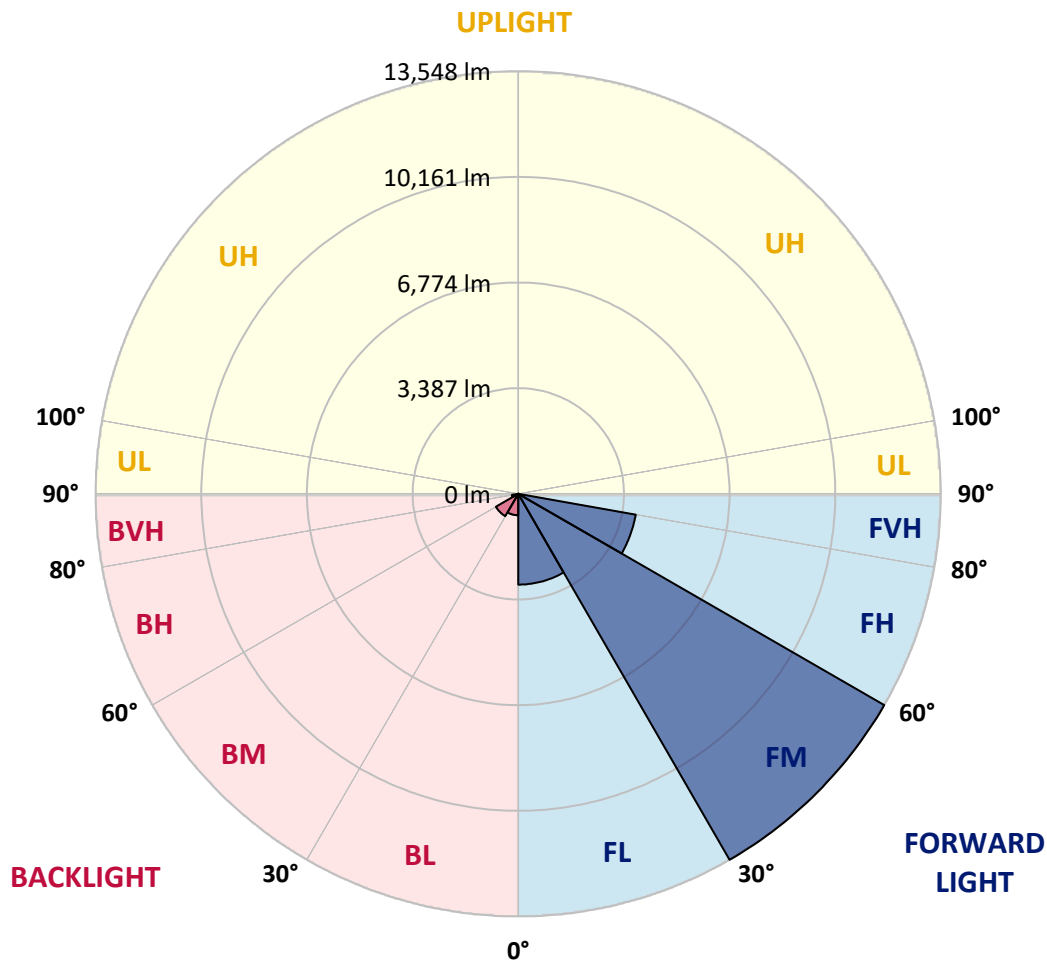


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2910.9	13.2			
FM (30°-60°)	13547.6	61.5			
FH (60°-80°)	3825.2	17.4			G2/5000
FVH (80°-90°)	37.6	0.2			G1/100
BL (0°-30°)	687.2	3.1	B2/1000		
BM (30°-60°)	826.7	3.8	B1/1000		
BH (60°-80°)	204.7	0.9	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			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°	65°	75°	85°	90°
0°	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8
2.5°	6590.7	6507.8	6495.6	6479.2	6321.6	6203.4	6032.1	5844.5	5633.8	5419.1	5324.0
5°	7614.2	7548.9	7536.7	7460.6	7281.2	7080.1	6775.6	6391.0	5998.1	5536.0	5337.6
7.5°	7812.7	7800.5	7856.1	7853.4	7828.9	7670.0	7413.0	6955.0	6365.1	5680.0	5372.8
10°	6927.8	6959.0	7124.9	7270.3	7663.1	7891.5	7835.7	7457.9	6743.0	5844.5	5412.3
12.5°	6121.8	6085.1	6203.4	6367.8	6824.6	7504.1	8011.1	7877.8	7175.2	6030.8	5470.7
15°	5616.2	5601.2	5667.8	5744.0	6091.9	6776.9	7807.2	8219.1	7591.0	6251.0	5559.1
17.5°	5454.4	5442.2	5462.6	5481.6	5707.3	6237.3	7322.0	8428.4	7989.4	6502.4	5657.0
20°	5586.2	5570.0	5567.3	5552.3	5646.1	6007.6	6883.0	8443.3	8346.8	6730.8	5741.2
22.5°	5970.9	5951.9	5885.3	5825.5	5833.7	6038.9	6687.2	8293.8	8615.9	6944.2	5794.2
25°	6668.2	6637.0	6498.3	6297.2	6169.4	6256.4	6717.1	8096.7	8872.8	7111.3	5768.4
27.5°	7540.8	7500.0	7322.0	7023.0	6730.8	6624.7	6933.2	7960.8	9086.2	7239.1	5712.7
30°	8395.8	8342.8	8167.4	7934.9	7508.2	7173.9	7323.3	8020.6	9340.4	7372.3	5639.3
32.5°	9318.6	9268.4	9035.9	8747.8	8394.3	7944.5	7857.5	8312.9	9651.6	7558.5	5587.7
35°	10486.2	10407.3	10077.1	9684.3	9309.2	8853.7	8580.6	8817.0	10066.2	7842.6	5616.2
37.5°	11815.5	11709.5	11353.3	10811.0	10321.8	9812.0	9461.4	9510.3	10673.7	8223.2	5704.5
40°	13068.6	12972.2	12643.2	12132.2	11517.8	10899.3	10525.6	10416.9	11512.4	8686.6	5859.5
42.5°	13820.3	13733.3	13594.7	13378.5	12860.7	12230.0	11758.4	11523.3	12504.6	9241.2	6048.4
45°	13862.4	13786.4	13972.5	14223.9	14122.0	13702.0	13127.1	12696.3	13500.9	9761.7	6244.1
47.5°	13188.3	13136.6	13702.0	14580.1	15017.7	15194.4	14664.4	13771.4	14323.1	10135.5	6324.4
50°	11350.6	11331.6	12495.1	14107.1	15358.9	16502.0	16285.8	14771.7	14960.7	10328.5	6248.2
52.5°	9841.9	9772.6	10450.8	12592.9	14862.8	17189.8	17870.7	15753.0	15406.5	10365.2	6070.2
55°	7464.7	7403.6	8254.4	10059.3	13263.0	16945.1	19030.0	16765.6	15725.9	10271.4	5750.8
57.5°	4004.2	3966.1	5041.3	6695.4	10368.0	15477.1	19239.4	17836.7	15995.0	10022.7	5303.6
60°	1559.0	1552.2	1954.5	3248.4	6301.2	12591.6	18183.3	18479.6	16163.5	9716.9	4929.8
62.5°	943.3	963.7	1028.9	1458.4	2783.6	7822.2	15749.0	17748.4	16276.4	9436.9	4621.2
65°	780.1	781.6	789.7	1001.7	1333.3	3272.9	11856.3	15342.6	15997.7	8938.1	4183.6
67.5°	668.7	680.9	712.2	795.1	940.5	1435.3	6825.9	11884.8	14302.7	7777.3	3501.3
70°	527.4	543.7	583.1	653.7	725.8	898.4	2522.6	7907.8	10926.6	5862.2	2647.7
72.5°	444.4	443.1	463.5	531.5	576.3	632.0	970.5	4431.0	6350.2	2798.6	1310.3
75°	343.9	357.4	383.2	444.4	471.6	458.1	526.0	1618.8	2275.3	848.2	445.8
77.5°	269.2	280.0	303.1	363.0	390.1	324.8	303.1	579.0	731.2	304.4	201.2
80°	121.0	130.5	206.6	267.7	318.1	224.3	164.5	296.3	324.8	138.7	102.0
82.5°	21.7	36.7	121.0	141.3	163.1	145.4	85.6	153.5	159.0	55.8	35.4
85°	1.3	2.8	42.1	51.7	65.3	47.6	25.8	61.2	53.0	19.1	13.6
87.5°	0.0	0.0	0.0	1.3	1.3	6.8	8.2	10.9	8.2	6.8	5.4
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8	5311.8
2.5°	5226.1	5033.1	4845.5	4691.9	4602.2	4450.0	4349.4	4333.1	4291.0	4327.7
5°	5125.5	4780.3	4431.0	4118.3	3861.5	3529.8	3282.5	3177.8	3086.7	3117.9
7.5°	5078.0	4533.0	3989.2	3455.1	2906.0	2375.8	1981.7	1817.2	1692.2	1709.9
10°	5014.1	4276.0	3423.8	2608.3	1873.0	1349.7	1077.9	977.2	921.6	922.9
12.5°	4965.1	3968.8	2767.3	1768.3	1140.3	861.7	777.5	753.0	736.7	738.0
15°	4940.7	3607.3	2119.0	1178.4	815.5	729.9	709.5	698.6	687.8	686.4
17.5°	4899.9	3205.0	1550.8	860.4	713.6	683.7	666.0	653.7	640.2	637.4
20°	4838.7	2748.3	1133.5	727.1	668.7	645.6	621.2	604.9	588.6	585.8
22.5°	4726.0	2265.8	871.2	672.8	636.1	610.3	580.4	561.4	545.0	542.3
25°	4516.6	1813.1	734.0	638.8	607.5	576.3	543.7	517.8	502.9	500.2
27.5°	4251.6	1424.4	666.0	607.5	570.8	542.3	505.6	481.1	467.6	464.8
30°	3939.0	1096.9	626.6	572.3	527.4	502.9	470.3	449.9	441.8	441.8
32.5°	3601.8	876.7	610.3	536.9	489.3	462.2	436.3	428.1	425.5	424.0
35°	3285.1	761.2	602.1	508.3	455.3	429.5	418.6	419.9	425.5	425.5
37.5°	3003.9	724.5	598.1	487.9	425.5	402.3	409.1	421.4	415.9	415.9
40°	2749.7	728.6	595.3	473.0	401.0	387.3	401.0	391.4	377.8	376.5
42.5°	2555.3	762.5	589.9	460.7	386.0	376.5	371.0	356.1	354.8	357.4
45°	2414.0	792.4	588.6	455.3	369.7	352.0	345.2	330.3	357.4	364.3
47.5°	2246.7	792.4	588.6	436.3	342.6	335.7	324.8	308.5	335.7	342.6
50°	2030.6	742.1	565.4	414.5	320.7	316.7	297.7	277.3	271.8	275.9
52.5°	1757.5	651.1	507.0	384.7	299.0	290.9	267.7	252.8	248.8	248.8
55°	1446.2	545.0	428.1	341.1	275.9	261.0	244.7	237.9	233.8	231.0
57.5°	1175.7	447.2	343.9	303.1	254.2	235.1	229.7	221.5	214.7	210.6
60°	965.0	352.0	284.0	269.2	232.5	214.7	213.4	202.5	184.8	182.1
62.5°	744.9	258.2	239.2	233.8	210.6	195.8	193.0	171.3	144.1	138.7
65°	526.0	201.2	193.0	205.2	187.6	173.9	167.2	134.6	106.0	102.0
67.5°	369.7	168.5	152.2	179.4	163.1	145.4	141.3	114.2	88.4	85.6
70°	263.7	137.2	125.0	153.5	130.5	127.7	119.6	95.1	72.1	69.3
72.5°	186.2	104.7	96.5	133.2	89.7	110.1	97.9	73.4	54.3	51.7
75°	137.2	74.7	68.0	77.5	65.3	82.9	69.3	48.9	34.0	32.6
77.5°	100.6	47.6	40.8	38.0	38.0	51.7	38.0	20.4	15.0	13.6
80°	70.7	21.7	19.1	16.3	15.0	12.2	5.4	2.8	1.3	1.3
82.5°	42.1	9.5	9.5	6.8	4.1	0.0	0.0	0.0	0.0	0.0
85°	9.5	4.1	4.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	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)