

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: P881560

Luminaire Tested: **NVN-SB1A-735-U-T4FT-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: NVN-SB1A-735-U-T4FT-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3500K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

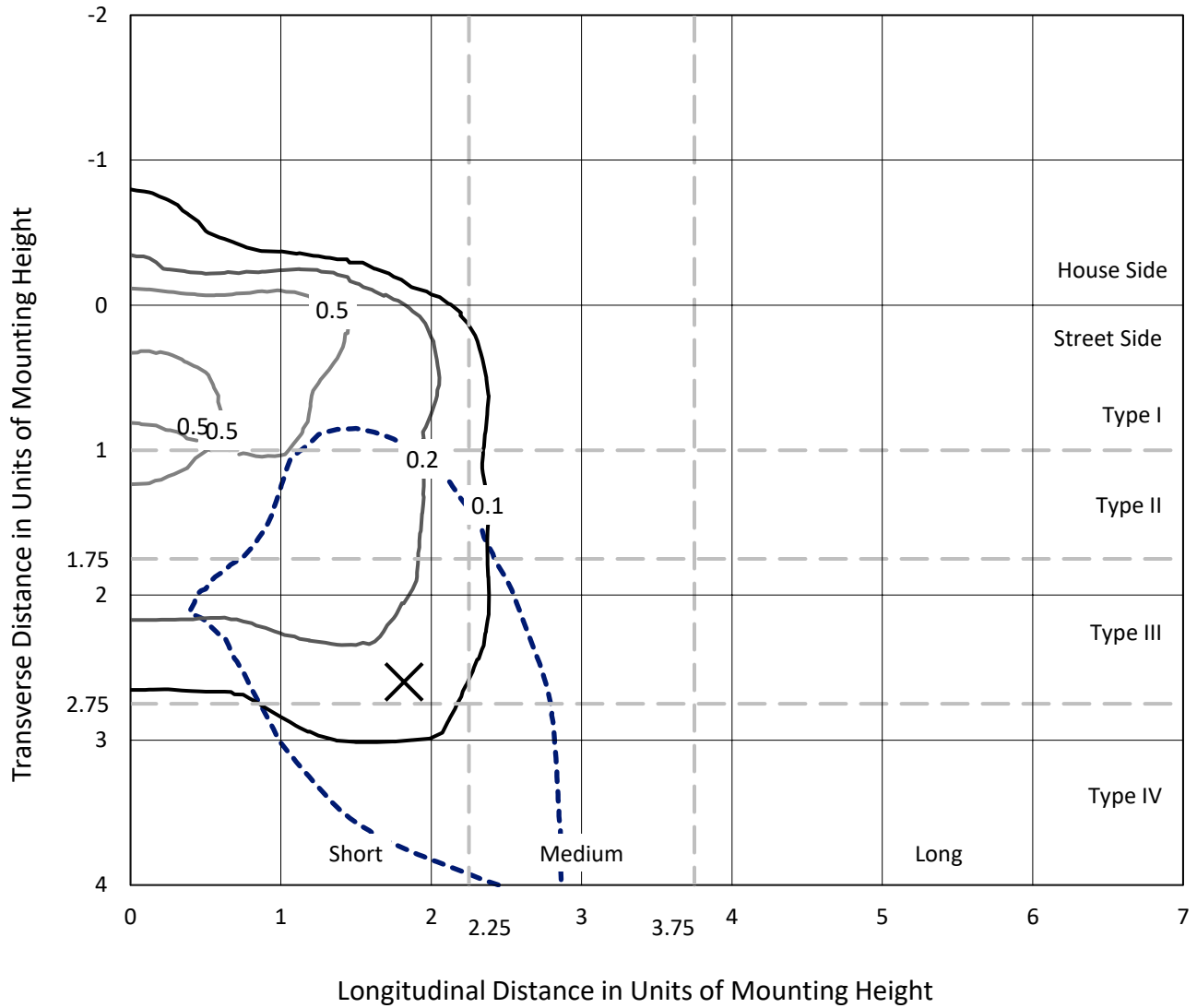
Lumens per Lamp: N/A  
Luminaire Lumens: 3399 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.263  
Voltage Rise (V): NR  
Power Factor: 0.995  
Total Harmonic Distortion (THDi): 6.356  
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

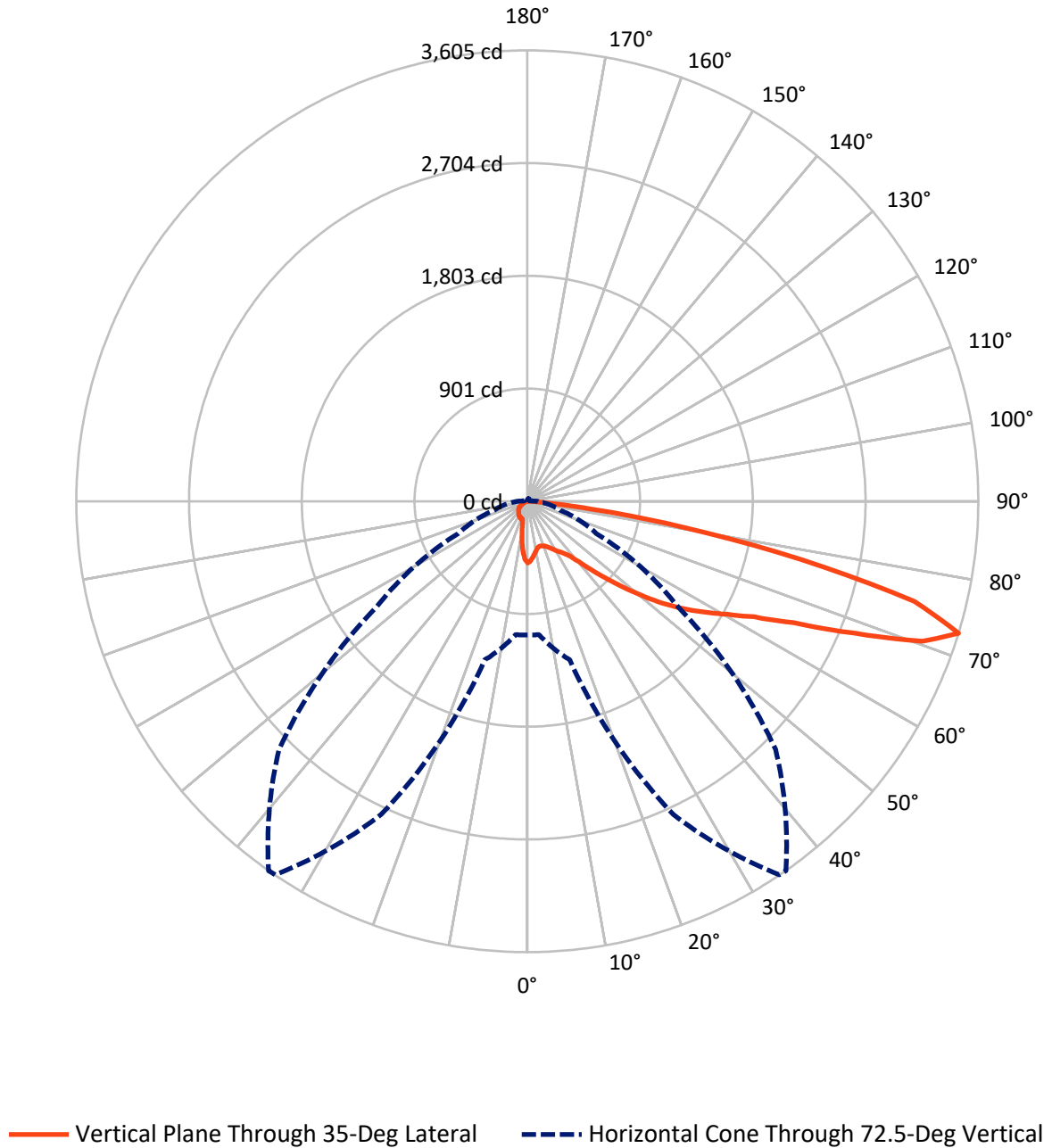
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	382.5	0.0	382.5
	% Fixture	11.3	0.0	11.3
<b>Street Side</b>	Lumens	3016.5	0.0	3016.5
	% Fixture	88.7	0.0	88.7
<b>Total</b>	Lumens	3399.0	0.0	3399.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.5	1.2
10°-20°	94.7	2.8
20°-30°	153.8	4.5
30°-40°	256.7	7.6
40°-50°	485.6	14.3
50°-60°	771.7	22.7
60°-70°	954.6	28.1
70°-80°	593.4	17.5
80°-90°	47.9	1.4
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°	3399.0	100.0
0°-180°	3399.0	100.0

**Coefficient of Utilization**



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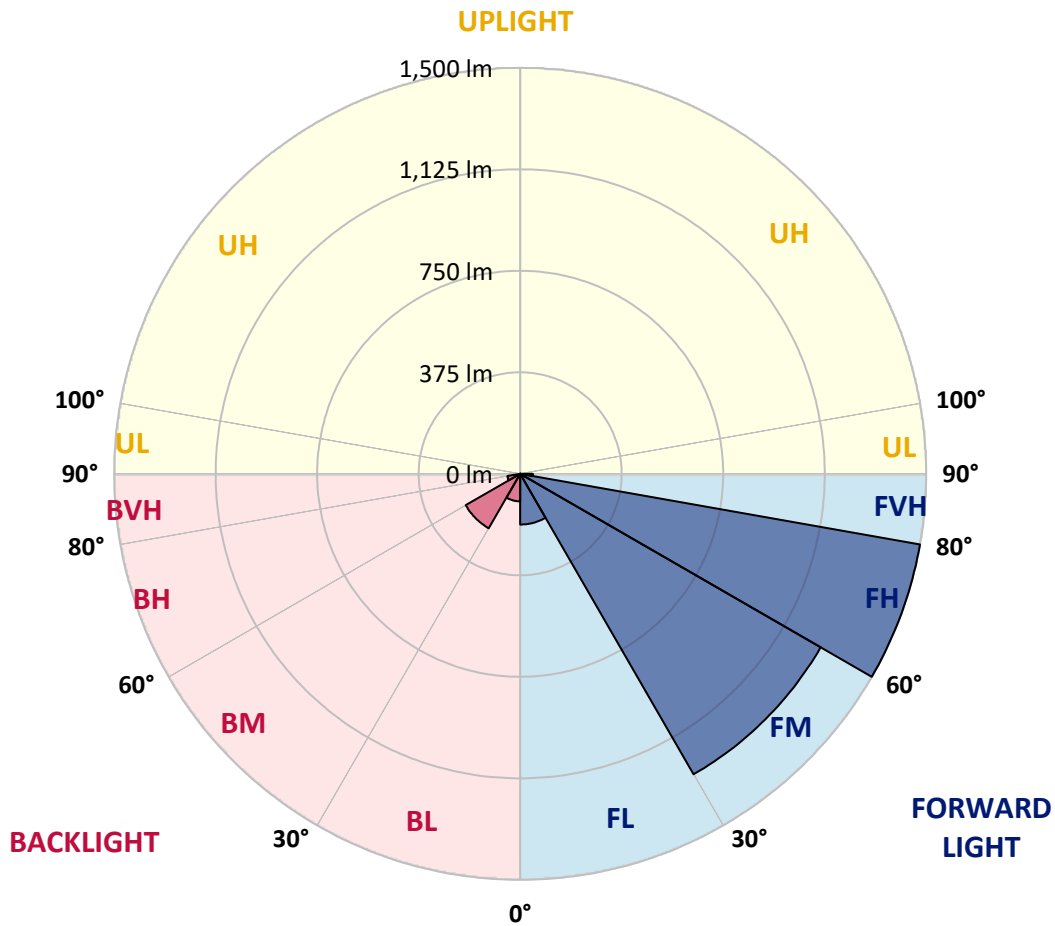
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	187.4	5.5			
FM (30°-60°)	1281.8	37.7			
FH (60°-80°)	1500.0	44.1			G1/1800
FVH (80°-90°)	47.3	1.4			G1/100
BL (0°-30°)	101.6	3.0	B0/110		
BM (30°-60°)	232.2	6.8	B1/1000		
BH (60°-80°)	48.0	1.4	B0/110		G0/110
BVH (80°-90°)	0.6	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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6
2.5°	470.7	474.7	475.4	476.7	476.7	478.2	480.7	484.2	489.9	492.9	494.9
5°	433.9	436.8	440.6	443.6	449.3	450.0	459.8	469.2	482.4	492.4	499.4
7.5°	396.7	400.2	405.2	412.4	419.9	422.1	436.8	452.8	473.7	492.4	504.1
10°	370.6	370.8	375.3	382.5	394.5	397.2	415.2	437.8	464.0	489.4	508.6
12.5°	355.9	357.6	359.6	365.1	376.6	378.3	397.5	424.1	454.3	487.6	513.8
15°	355.9	357.1	358.4	361.1	370.3	371.8	388.8	415.4	449.3	488.4	522.3
17.5°	359.6	361.6	360.6	363.9	373.6	374.6	389.5	412.9	449.0	493.1	535.2
20°	368.6	370.1	368.1	370.1	379.8	381.8	397.2	417.7	453.3	501.3	551.4
22.5°	382.8	383.5	378.8	380.3	390.3	392.8	410.7	431.1	463.5	514.5	573.1
25°	400.7	402.2	395.0	396.7	406.2	409.2	429.9	451.3	479.7	532.7	600.7
27.5°	421.4	422.1	415.9	415.7	427.9	432.1	453.0	476.2	501.3	555.6	635.6
30°	445.1	447.3	441.3	440.3	455.8	459.3	479.9	506.8	533.2	590.0	685.1
32.5°	463.7	465.5	462.0	464.5	480.2	482.9	512.6	550.2	583.3	638.8	752.6
35°	490.6	491.6	483.7	488.1	506.1	513.1	557.1	610.9	646.3	700.1	840.8
37.5°	588.0	588.0	554.1	532.0	549.2	555.4	618.2	687.4	724.0	782.3	951.9
40°	722.8	720.5	671.0	625.6	623.4	635.6	705.1	783.8	824.4	880.9	1076.9
42.5°	866.5	863.0	795.5	750.6	743.2	747.4	805.4	902.6	943.9	1001.2	1211.4
45°	994.0	993.0	931.2	870.9	857.5	870.9	930.7	1041.5	1071.2	1131.5	1345.6
47.5°	1100.8	1100.8	1055.7	1016.4	1009.4	1017.4	1100.3	1195.7	1193.0	1270.2	1476.4
50°	1223.9	1222.9	1180.0	1163.1	1170.3	1181.5	1295.6	1358.1	1319.0	1406.4	1593.2
52.5°	1310.0	1316.0	1301.3	1298.6	1335.4	1354.9	1493.8	1517.0	1431.8	1535.7	1680.6
55°	1378.3	1385.2	1402.2	1421.4	1492.3	1517.7	1685.8	1667.7	1526.2	1647.7	1730.9
57.5°	1474.9	1464.9	1491.1	1528.9	1643.8	1674.4	1871.9	1809.9	1602.2	1738.6	1736.4
60°	1592.2	1593.7	1598.2	1646.0	1794.9	1834.3	2055.2	1944.4	1651.0	1794.4	1675.6
62.5°	1733.2	1735.4	1744.6	1818.1	1997.9	2035.0	2250.5	2054.4	1673.4	1778.7	1518.7
65°	1723.5	1732.9	1835.8	2087.1	2306.5	2343.1	2478.3	2131.7	1639.5	1635.3	1236.6
67.5°	1570.0	1585.5	1757.6	2408.4	2771.7	2812.6	2753.8	2146.8	1493.3	1271.7	806.7
70°	1368.8	1374.3	1581.2	2697.3	3310.4	3351.8	3000.4	1979.7	1133.2	709.3	361.4
72.5°	1068.9	1070.2	1313.0	2764.3	3602.8	3605.1	2806.8	1469.7	609.4	272.5	125.5
75°	763.6	756.1	879.4	2241.7	3169.7	3195.1	2104.3	689.4	232.9	128.8	62.5
77.5°	409.4	417.7	497.6	1329.5	2189.7	2233.0	1148.1	198.7	118.5	87.7	41.3
80°	126.5	133.5	204.0	608.7	1240.3	1266.4	425.6	88.4	82.7	62.5	27.1
82.5°	39.8	41.3	95.1	255.8	514.8	526.7	123.3	50.1	56.5	41.3	15.9
85°	11.5	11.7	42.3	95.4	127.3	129.8	34.6	19.4	32.4	25.7	8.2
87.5°	1.2	4.0	15.9	15.9	11.2	11.0	3.7	4.2	9.2	3.2	1.5
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°	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6	492.6
2.5°	493.6	493.9	490.6	485.2	479.2	474.2	468.0	463.0	459.5	458.5	460.3
5°	497.1	495.4	486.2	469.5	449.5	432.4	413.2	398.0	388.0	383.8	385.3
7.5°	502.3	497.4	477.2	444.3	406.2	372.3	338.0	311.3	294.4	285.9	287.2
10°	506.8	496.9	462.2	408.0	349.7	298.4	252.0	219.9	202.0	193.5	193.8
12.5°	511.1	496.6	442.8	364.9	285.9	223.2	180.1	164.1	159.1	157.4	156.9
15°	519.0	497.4	418.4	315.6	222.4	168.6	152.9	152.7	153.7	153.2	152.9
17.5°	530.0	498.1	390.8	263.3	171.6	148.7	147.9	150.2	151.7	150.9	150.7
20°	544.2	501.1	361.4	211.4	147.4	143.7	145.4	147.4	148.7	147.4	147.2
22.5°	564.1	506.3	329.2	169.9	139.7	140.7	142.2	144.5	145.7	144.0	143.7
25°	588.5	514.5	297.6	147.7	136.0	137.2	139.5	142.0	143.5	141.7	141.5
27.5°	620.1	527.7	268.5	142.7	132.2	133.0	136.2	140.0	142.0	139.7	139.7
30°	666.0	549.4	243.3	144.9	130.0	128.3	132.7	138.0	140.2	138.2	138.0
32.5°	726.7	580.0	227.9	148.4	129.0	122.8	127.0	133.7	137.5	136.2	136.2
35°	806.4	626.6	221.9	152.4	128.3	117.1	120.0	127.3	133.7	135.0	135.0
37.5°	903.1	691.4	223.7	154.2	126.0	112.3	113.8	120.0	128.5	132.5	133.5
40°	1012.9	766.8	233.6	152.4	123.5	108.3	108.6	113.3	120.8	126.8	128.8
42.5°	1126.2	855.0	252.0	145.9	121.3	104.9	104.1	107.3	112.3	116.6	118.3
45°	1234.1	945.7	270.2	137.0	118.5	101.4	99.6	100.9	101.9	103.6	104.6
47.5°	1328.2	1009.4	265.0	128.8	114.8	97.4	94.4	93.9	90.9	90.7	90.4
50°	1393.2	1023.4	235.4	120.5	109.3	92.9	88.2	85.2	79.9	77.5	77.7
52.5°	1413.9	968.3	192.3	112.3	100.4	86.9	80.2	75.5	69.0	66.7	66.5
55°	1386.5	860.5	153.7	102.4	87.9	79.0	71.5	65.3	60.0	57.3	57.3
57.5°	1319.5	723.3	121.5	90.7	74.7	70.0	62.5	56.3	51.8	49.1	48.6
60°	1208.4	574.3	96.1	76.7	63.8	60.3	52.6	48.6	44.6	41.3	40.6
62.5°	1039.8	409.9	75.5	60.8	53.3	49.3	44.8	41.8	37.1	32.6	31.9
65°	811.4	250.8	58.3	44.6	42.8	40.8	38.1	35.4	29.6	25.2	24.4
67.5°	511.8	118.8	41.6	33.6	33.9	32.9	31.6	29.4	25.2	21.2	20.7
70°	225.4	57.5	27.4	25.7	25.2	25.2	26.2	25.4	21.4	17.7	16.9
72.5°	76.7	30.9	20.4	19.4	18.2	17.9	21.9	21.2	17.2	13.7	13.0
75°	40.1	20.7	14.9	13.9	11.0	13.2	17.4	16.4	12.2	9.0	8.2
77.5°	26.2	14.7	10.2	9.0	6.2	8.7	13.0	11.5	7.2	4.5	4.0
80°	16.4	9.7	6.0	4.2	3.0	4.7	7.0	5.0	2.7	1.0	0.7
82.5°	8.7	5.0	2.2	1.5	1.2	1.5	1.7	1.2	0.5	0.0	0.0
85°	3.5	1.7	0.7	0.5	0.2	0.0	0.5	0.2	0.0	0.0	0.0
87.5°	1.2	0.2	0.0	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)