

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: P965777

Luminaire Tested: **NVN-SB4A-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB4A-830-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14018.9 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 114
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



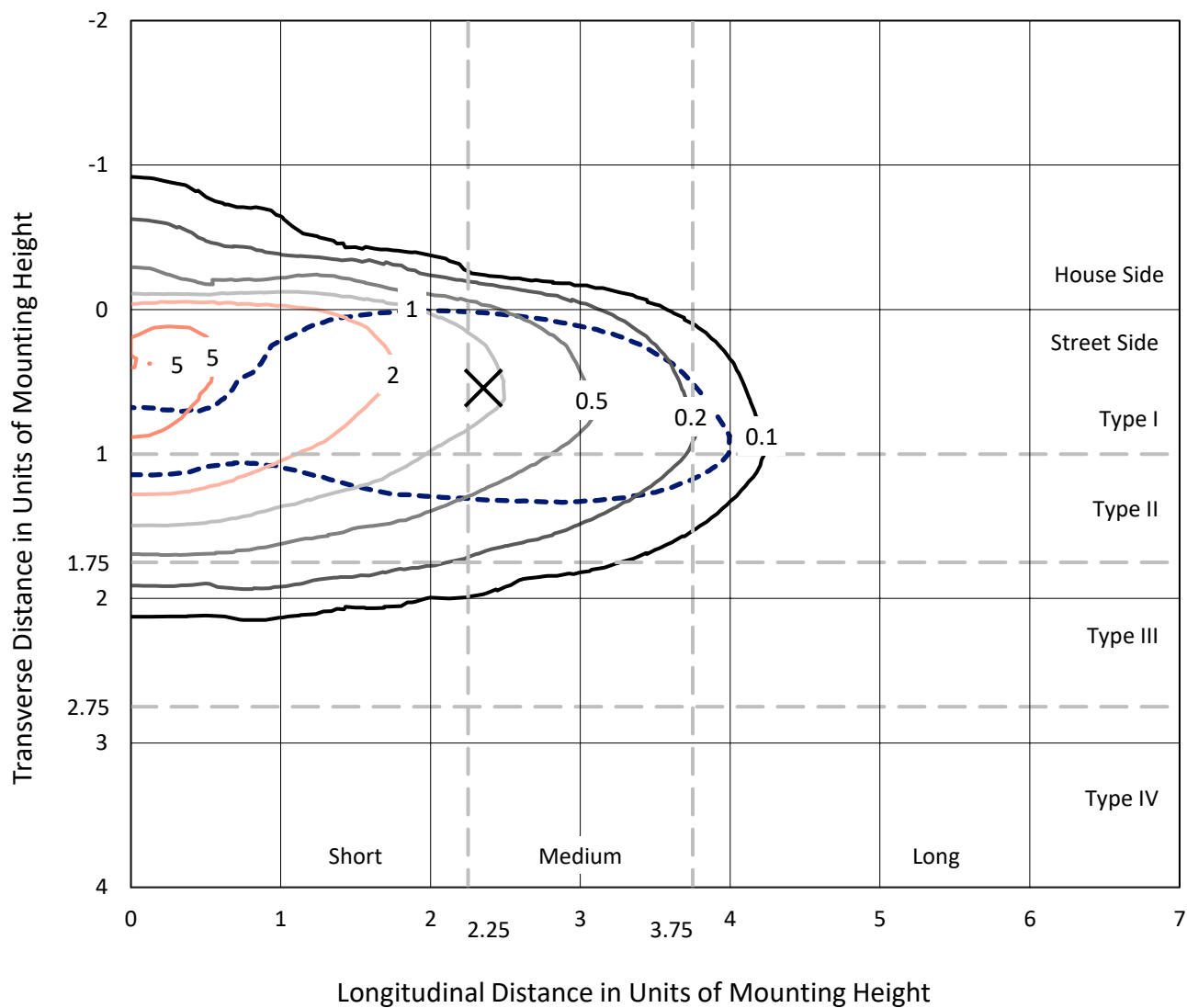
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Iso-Footcandle Lines of Horizontal Illumination

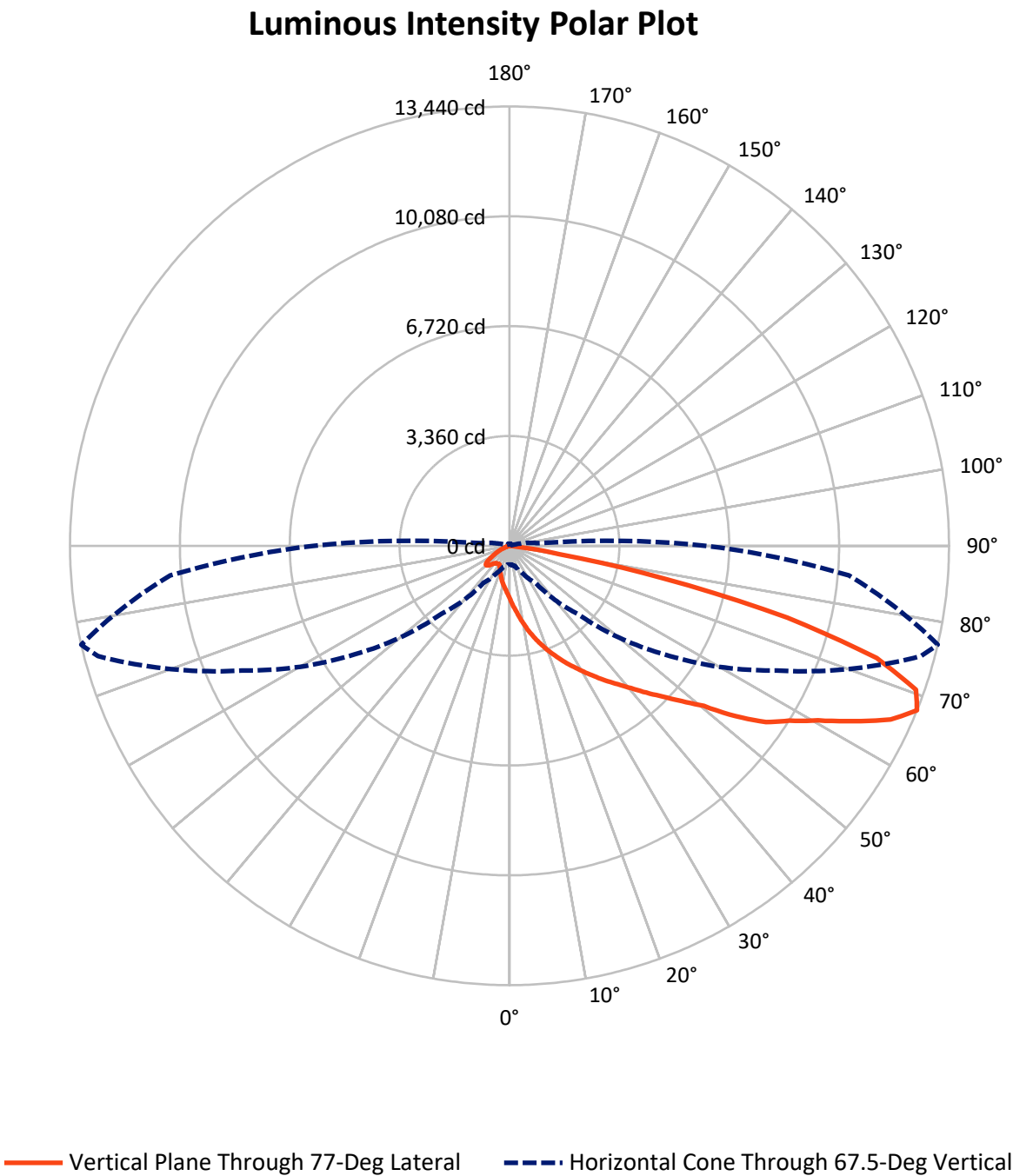
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type II - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1031.4	0.0	1031.4
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	12987.5	0.0	12987.5
	% Fixture	92.6	0.0	92.6
Total	Lumens	14018.9	0.0	14018.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	1.2
10°-20°	577.8	4.1
20°-30°	1115.0	8.0
30°-40°	1935.7	13.8
40°-50°	2810.6	20.0
50°-60°	3227.6	23.0
60°-70°	2802.1	20.0
70°-80°	1319.8	9.4
80°-90°	65.3	0.5
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°	14018.9	100.0
0°-180°	14018.9	100.0

Coefficient of Utilization



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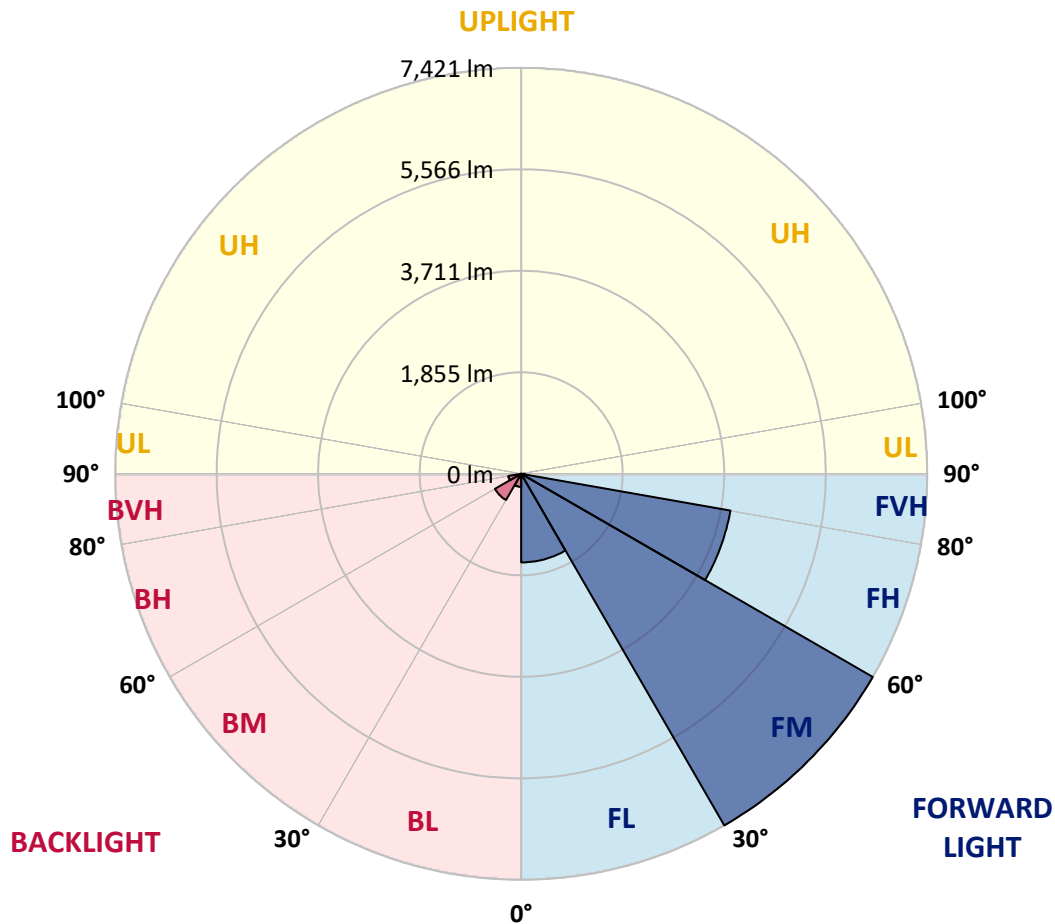
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1619.0	11.5			
FM	(30°-60°)	7421.2	52.9			
FH	(60°-80°)	3883.2	27.7			G2/5000
FVH	(80°-90°)	64.1	0.5			G1/100
BL	(0°-30°)	238.8	1.7	B1/500		
BM	(30°-60°)	552.6	3.9	B1/1000		
BH	(60°-80°)	238.8	1.7	B1/500		G1/500
BVH	(80°-90°)	1.2	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6
2.5°	2238.2	2252.1	2232.0	2193.7	2136.3	2098.9	2007.5	1921.3	1825.5	1795.1	1699.2
5°	2728.2	2740.4	2717.8	2676.1	2599.4	2526.3	2406.2	2226.0	2038.8	1978.8	1809.0
7.5°	3091.3	3098.3	3089.6	3051.2	2978.1	2895.4	2761.4	2548.0	2270.4	2204.2	1943.9
10°	3352.5	3375.1	3372.5	3357.7	3308.9	3241.9	3099.1	2856.3	2529.8	2444.4	2096.2
12.5°	3525.7	3550.9	3565.8	3598.8	3596.2	3553.6	3428.2	3171.4	2788.3	2688.3	2267.7
15°	3576.1	3603.2	3659.8	3736.3	3804.3	3826.0	3738.1	3480.4	3073.0	2945.0	2443.6
17.5°	3547.4	3589.2	3657.1	3778.2	3927.0	4025.4	4015.7	3779.0	3331.6	3185.3	2616.0
20°	3611.0	3651.0	3704.1	3806.0	3979.3	4157.7	4229.0	4064.5	3588.3	3435.2	2797.0
22.5°	3962.6	3955.7	3960.9	3977.5	4081.0	4257.8	4404.9	4324.0	3842.5	3685.9	2988.6
25°	4519.8	4488.5	4435.4	4345.7	4319.7	4404.9	4558.2	4553.8	4110.7	3942.7	3184.5
27.5°	5158.8	5153.6	5029.1	4813.2	4691.3	4658.2	4731.4	4777.5	4376.2	4196.9	3381.2
30°	5770.7	5784.7	5616.7	5376.4	5152.7	5023.0	4956.8	4989.9	4646.0	4471.0	3584.0
32.5°	6303.5	6318.4	6135.5	5854.4	5577.5	5420.8	5281.5	5199.7	4940.3	4749.6	3806.8
35°	6753.6	6768.4	6558.7	6247.9	5952.7	5810.8	5653.3	5429.5	5236.3	5058.7	4055.0
37.5°	7155.8	7151.4	6870.3	6556.9	6267.0	6154.7	6072.0	5712.4	5540.9	5369.5	4330.0
40°	7393.4	7411.8	7171.5	6825.9	6544.7	6462.8	6457.6	6063.3	5892.6	5726.4	4631.3
42.5°	7463.1	7495.3	7321.3	7037.4	6782.3	6693.6	6830.2	6442.8	6301.8	6139.9	4971.7
45°	7337.8	7369.1	7289.9	7093.1	6944.3	6886.9	7150.6	6836.3	6738.9	6578.7	5355.5
47.5°	6972.2	7011.3	7030.5	6988.7	6986.9	7045.2	7437.9	7250.7	7257.7	7094.0	5800.4
50°	6264.4	6330.5	6506.4	6654.4	6883.4	7170.6	7717.3	7699.9	7842.7	7701.6	6380.2
52.5°	4977.7	5071.8	5677.7	6082.5	6596.9	7147.1	8024.6	8420.7	8869.0	8662.7	7197.7
55°	4000.2	4000.2	4492.9	5250.3	6038.1	6992.1	8158.7	8889.1	9568.1	9519.3	7773.0
57.5°	3261.0	3300.2	3614.5	4283.9	5229.3	6623.0	8241.4	9183.3	10131.3	10095.6	8335.4
60°	2012.7	2097.1	2690.8	3351.5	4309.2	5965.8	8189.1	9481.0	10814.7	10843.4	9012.7
62.5°	1133.4	1164.8	1429.5	2411.4	3350.7	5082.2	7789.6	9647.3	11688.7	11810.6	9710.8
65°	782.6	798.3	900.2	1500.8	2322.5	4046.3	7008.7	9543.7	12564.4	12810.9	10302.8
67.5°	568.5	576.3	639.8	916.7	1378.0	2933.8	5784.7	9021.3	13028.5	13440.2	10415.9
70°	437.1	442.2	488.4	602.4	814.0	1810.8	4201.2	7982.8	12692.5	13184.3	9836.2
72.5°	355.2	360.4	396.1	445.7	539.8	1070.7	2546.3	6482.9	11209.0	11740.0	8373.7
75°	299.5	306.5	338.7	370.8	423.1	687.8	1194.3	4514.6	8429.4	8777.6	5823.0
77.5°	166.3	153.2	275.1	307.3	356.9	435.3	558.9	2656.9	4720.9	4817.6	2583.7
80°	103.6	107.1	218.5	247.2	274.2	219.4	255.9	1022.8	1636.6	1554.8	500.6
82.5°	6.0	13.9	168.0	178.5	188.0	94.0	96.7	347.4	394.3	362.1	88.8
85°	0.0	0.0	76.6	61.8	65.3	27.0	27.9	81.0	53.1	57.5	17.4
87.5°	0.0	0.0	0.0	1.7	0.0	2.6	5.2	7.0	2.6	3.5	6.0
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°	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6	1616.6
2.5°	1638.4	1577.4	1453.8	1332.8	1234.4	1143.0	1077.7	1015.9	984.6	982.9	981.1
5°	1688.0	1560.0	1312.8	1094.3	918.4	777.4	686.0	620.7	587.6	576.3	574.5
7.5°	1757.6	1565.3	1189.2	885.3	678.1	557.2	504.9	484.0	477.0	469.2	467.5
10°	1845.5	1577.4	1078.6	713.0	534.5	473.6	452.6	443.9	438.7	433.6	431.8
12.5°	1943.9	1588.7	968.9	591.9	470.1	438.7	423.9	413.5	406.5	400.5	398.7
15°	2039.6	1595.7	854.8	507.5	437.1	411.7	396.1	384.8	375.3	368.3	367.4
17.5°	2134.6	1605.3	747.8	457.0	410.0	384.8	369.1	355.2	347.4	339.5	338.7
20°	2239.9	1603.5	646.8	421.4	383.0	357.8	341.2	328.2	320.3	311.7	310.8
22.5°	2337.4	1594.8	558.0	390.8	355.2	330.8	312.5	299.5	291.6	284.6	283.8
25°	2449.6	1587.8	484.0	363.1	329.0	304.7	284.6	272.4	263.7	257.7	256.8
27.5°	2557.7	1577.4	430.1	337.7	303.8	280.3	261.2	247.2	239.4	235.0	235.0
30°	2663.9	1574.8	410.0	313.3	281.2	257.7	238.5	225.5	219.4	217.6	216.8
32.5°	2791.8	1581.8	418.7	304.7	260.2	236.8	218.5	208.9	202.8	202.8	202.8
35°	2928.5	1580.0	431.8	312.5	246.4	215.9	201.9	195.9	189.7	189.7	189.7
37.5°	3100.0	1582.6	442.2	325.5	241.2	198.4	190.6	182.9	179.4	179.4	179.4
40°	3356.0	1668.8	437.1	336.9	239.4	186.3	170.7	168.0	165.4	165.4	165.4
42.5°	3669.3	1856.0	443.9	337.7	238.5	177.6	156.7	162.0	155.8	155.0	154.1
45°	4012.3	2060.6	488.4	319.5	237.7	173.2	149.8	155.8	146.3	146.3	146.3
47.5°	4352.7	2263.4	533.6	293.4	235.0	172.4	143.6	140.1	137.6	138.4	138.4
50°	4821.9	2428.8	551.0	257.7	229.0	170.7	132.3	133.1	131.4	133.1	133.1
52.5°	5332.9	2463.6	530.1	217.6	211.6	165.4	124.5	127.9	127.1	128.8	128.8
55°	5651.5	2426.2	437.9	181.1	184.6	144.5	116.6	123.6	123.6	123.6	123.6
57.5°	5980.6	2266.9	310.8	147.1	153.2	118.4	109.7	119.3	118.4	117.6	117.6
60°	6217.3	2009.2	204.6	121.1	121.9	97.5	101.9	112.3	111.4	107.1	107.1
62.5°	6394.1	1724.6	131.4	102.7	93.2	87.9	93.2	101.9	98.4	88.8	87.0
65°	6374.1	1330.1	101.0	87.9	76.6	76.6	81.0	88.8	78.3	62.6	61.0
67.5°	6002.4	900.2	83.5	74.0	64.4	63.6	67.0	74.0	67.0	53.1	51.4
70°	5338.1	588.5	67.0	57.5	51.4	47.0	54.0	63.6	56.6	42.6	40.9
72.5°	4332.7	358.6	50.5	41.8	37.4	30.4	42.6	52.3	45.3	31.4	29.6
75°	2803.2	182.9	34.8	27.0	20.0	18.2	31.4	39.2	31.4	19.2	16.5
77.5°	1072.5	76.6	19.2	12.2	10.5	8.7	17.4	23.5	13.0	4.3	3.5
80°	206.3	32.2	9.5	6.0	5.2	3.5	2.6	1.7	0.0	0.0	0.0
82.5°	35.7	10.5	3.5	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	0.0	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)