

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: P967327

Luminaire Tested: **NVN-SB4D-827-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P967327
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-SB4D-827-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 900mA 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: 30776.7 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

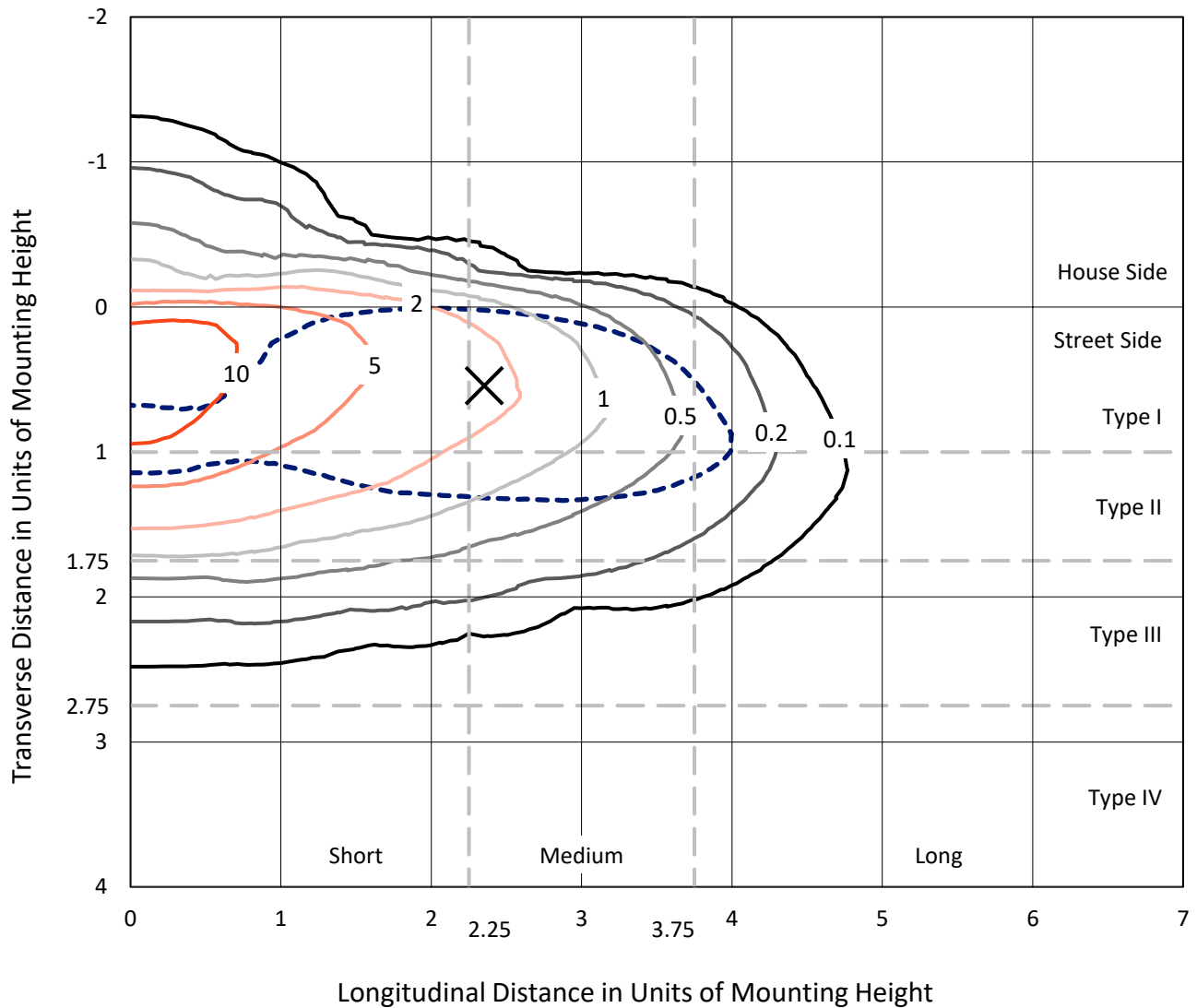
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

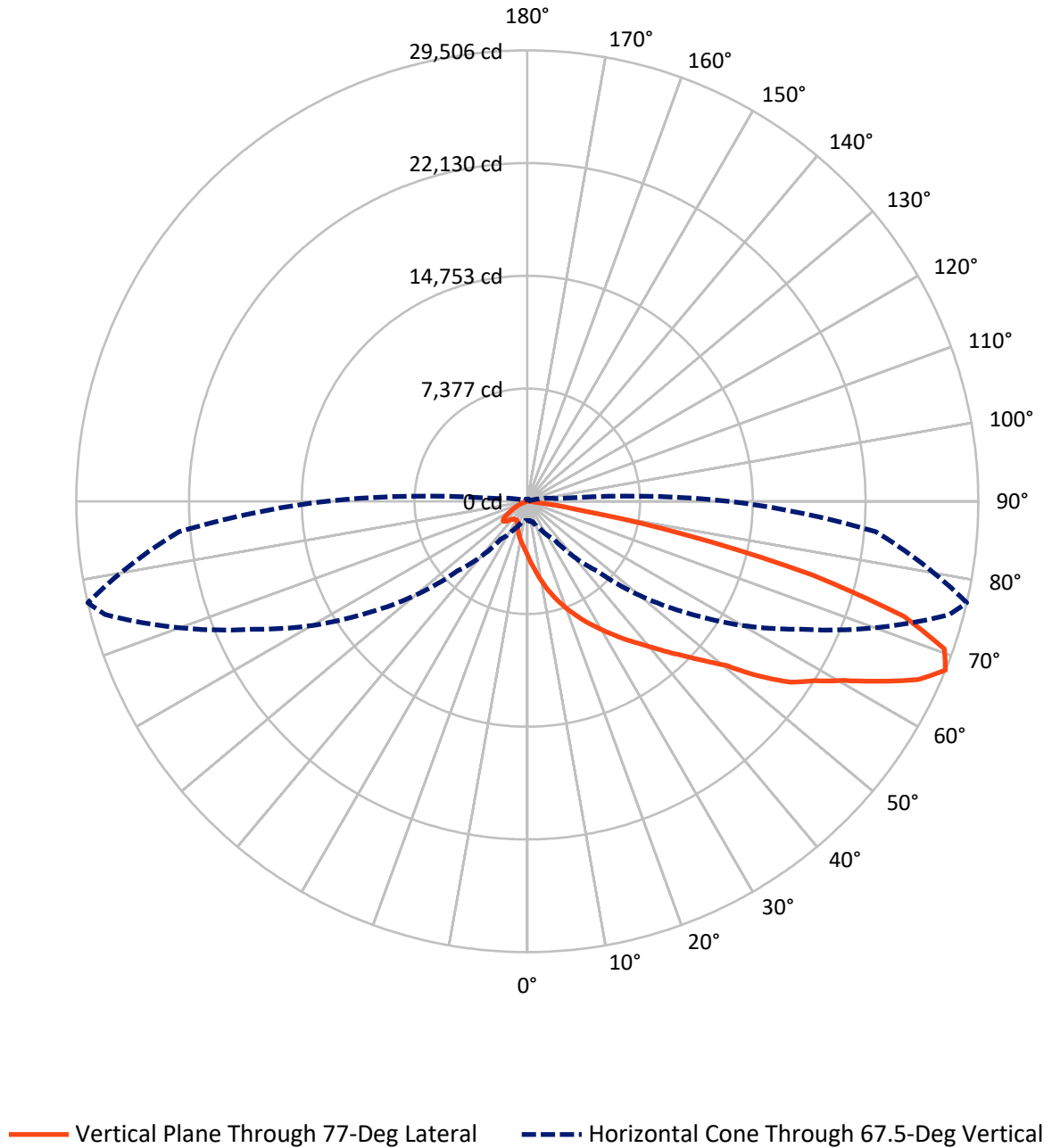
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2264.3	0.0	2264.3
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	28512.4	0.0	28512.4
	% Fixture	92.6	0.0	92.6
Total	Lumens	30776.7	0.0	30776.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.2	1.2
10°-20°	1268.5	4.1
20°-30°	2447.9	8.0
30°-40°	4249.6	13.8
40°-50°	6170.2	20.0
50°-60°	7085.7	23.0
60°-70°	6151.7	20.0
70°-80°	2897.5	9.4
80°-90°	143.3	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°	30776.7	100.0
0°-180°	30776.7	100.0

Coefficient of Utilization



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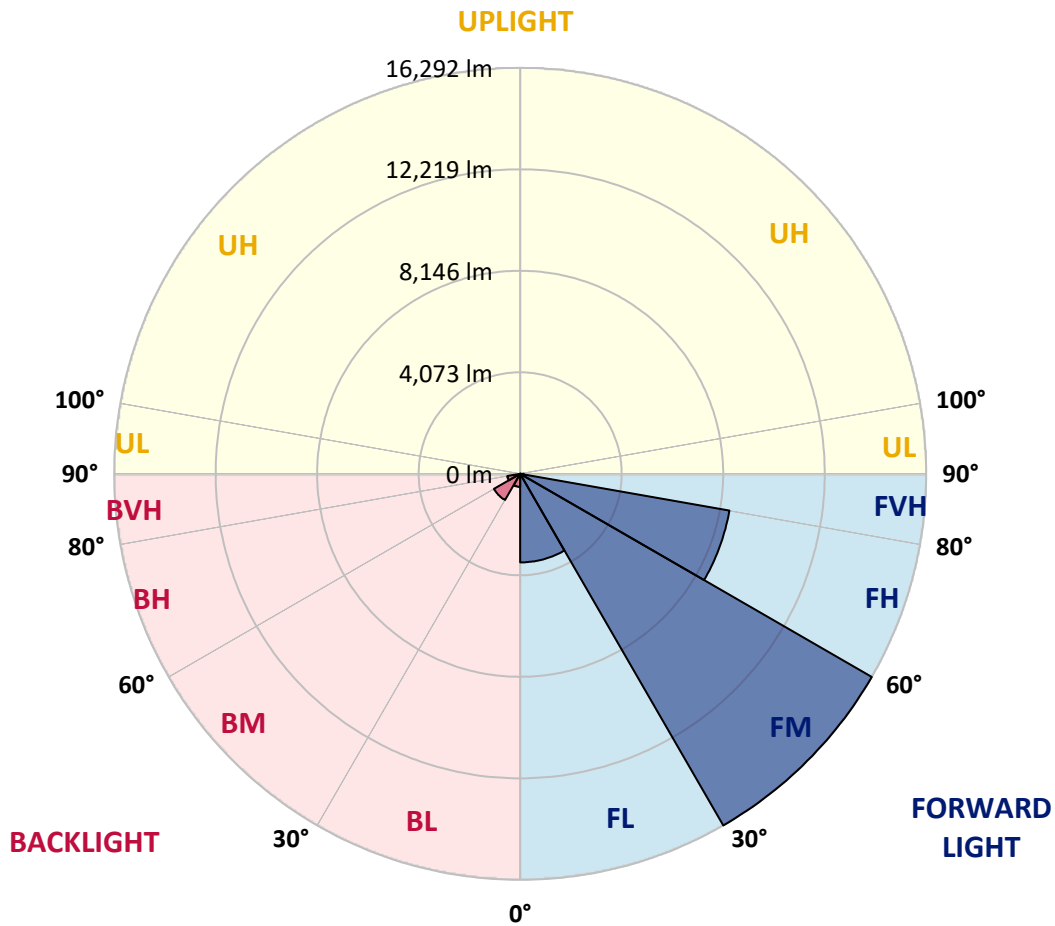
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3554.4	11.5			
FM (30°-60°)	16292.3	52.9			
FH (60°-80°)	8525.1	27.7			G4/12000
FVH (80°-90°)	140.7	0.5			G2/225
BL (0°-30°)	524.2	1.7	B2/1000		
BM (30°-60°)	1213.2	3.9	B2/2500		
BH (60°-80°)	524.2	1.7	B2/1000		G2/1000
BVH (80°-90°)	2.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0
2.5°	4913.5	4944.1	4900.2	4816.1	4690.0	4607.8	4407.1	4217.9	4007.6	3940.8	3730.6
5°	5989.5	6016.3	5966.6	5874.9	5706.7	5546.2	5282.4	4886.8	4475.9	4344.1	3971.4
7.5°	6786.5	6801.8	6782.6	6698.6	6538.1	6356.4	6062.2	5593.9	4984.3	4839.0	4267.6
10°	7359.8	7409.5	7403.8	7371.3	7264.3	7117.1	6803.6	6270.4	5553.8	5366.5	4602.0
12.5°	7740.2	7795.5	7828.0	7900.7	7895.0	7801.3	7526.1	6962.3	6121.4	5901.6	4978.5
15°	7851.0	7910.2	8034.5	8202.7	8351.7	8399.5	8206.5	7640.8	6746.3	6465.4	5364.5
17.5°	7787.9	7879.7	8028.7	8294.4	8621.2	8837.1	8816.1	8296.2	7314.0	6992.9	5743.0
20°	7927.5	8015.4	8131.9	8355.5	8735.9	9127.6	9284.3	8923.1	7877.7	7541.4	6140.5
22.5°	8699.6	8684.2	8695.7	8732.1	8959.4	9347.4	9670.4	9492.6	8435.9	8091.8	6560.9
25°	9922.7	9853.8	9737.3	9540.5	9483.1	9670.4	10006.8	9997.2	9024.4	8655.6	6991.0
27.5°	11325.4	11313.9	11040.7	10566.7	10299.2	10226.5	10387.0	10488.4	9607.3	9213.6	7422.8
30°	12669.0	12699.5	12330.7	11803.3	11312.1	11027.4	10882.1	10954.7	10199.8	9815.6	7868.2
32.5°	13838.6	13871.1	13469.7	12852.5	12244.8	11900.8	11594.9	11415.3	10845.7	10427.2	8357.4
35°	14826.7	14859.1	14398.6	13716.3	13068.4	12756.9	12411.0	11919.8	11495.6	11105.7	8902.1
37.5°	15709.7	15700.0	15082.8	14394.8	13758.4	13511.9	13330.2	12541.0	12164.5	11787.9	9506.1
40°	16231.4	16271.5	15744.0	14985.3	14368.0	14188.4	14176.9	13311.2	12936.5	12571.5	10167.3
42.5°	16384.2	16454.9	16072.7	15449.7	14889.8	14694.8	14994.8	14144.4	13834.8	13479.4	10914.6
45°	16109.1	16177.9	16003.9	15572.0	15245.2	15119.1	15698.2	15008.3	14794.2	14442.6	11757.4
47.5°	15306.4	15392.4	15434.4	15342.7	15338.8	15466.9	16328.9	15917.9	15933.2	15574.0	12734.0
50°	13752.6	13897.9	14283.9	14608.8	15111.5	15742.2	16942.3	16904.1	17217.5	16907.9	14006.8
52.5°	10927.9	11134.4	12464.5	13353.2	14482.6	15690.5	17617.0	18486.5	19470.8	19017.8	15801.4
55°	8781.7	8781.7	9863.5	11526.1	13255.7	15350.3	17911.3	19514.8	21005.4	20898.4	17064.6
57.5°	7159.1	7245.1	7935.0	9404.8	11480.3	14540.0	18092.8	20160.7	22241.9	22163.6	18299.2
60°	4418.6	4604.0	5907.4	7358.0	9460.1	13097.0	17978.2	20814.3	23742.2	23805.2	19786.1
62.5°	2488.3	2557.1	3138.1	5293.9	7356.0	11157.2	17100.9	21179.4	25661.0	25928.5	21318.9
65°	1718.1	1752.5	1976.1	3294.9	5099.0	8883.1	15386.7	20951.9	27583.6	28124.5	22618.5
67.5°	1247.9	1265.2	1404.7	2012.5	3025.4	6440.6	12699.5	19805.3	28602.2	29506.2	22866.8
70°	959.4	970.9	1072.1	1322.6	1786.9	3975.2	9223.2	17525.2	27864.5	28944.4	21594.1
72.5°	779.7	791.2	869.6	978.5	1184.9	2350.7	5590.1	14232.3	24607.9	25773.7	18383.4
75°	657.4	672.7	743.4	814.2	928.9	1509.8	2622.1	9911.2	18505.7	19270.1	12783.7
77.5°	365.0	336.4	603.9	674.7	783.6	955.6	1226.9	5832.9	10364.2	10576.3	5672.2
80°	227.4	235.0	479.7	542.7	602.0	481.6	561.9	2245.6	3592.9	3413.4	1098.9
82.5°	13.4	30.5	368.9	391.8	412.8	206.4	212.2	762.5	865.7	795.0	195.0
85°	0.0	0.0	168.2	135.7	143.3	59.2	61.2	177.7	116.5	126.2	38.2
87.5°	0.0	0.0	0.0	3.8	0.0	5.7	11.5	15.3	5.7	7.7	13.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0	3549.0
2.5°	3596.8	3463.0	3191.6	2926.0	2710.0	2509.3	2366.0	2230.3	2161.5	2157.7	2153.8
5°	3705.7	3424.7	2882.0	2402.3	2016.3	1706.6	1506.0	1362.6	1290.1	1265.2	1261.4
7.5°	3858.6	3436.2	2610.7	1943.6	1488.8	1223.1	1108.4	1062.6	1047.3	1030.1	1026.3
10°	4051.6	3463.0	2368.0	1565.3	1173.4	1039.7	993.8	974.7	963.2	951.7	947.9
12.5°	4267.6	3487.9	2127.1	1299.6	1032.0	963.2	930.7	907.8	892.5	879.1	875.4
15°	4477.8	3503.1	1876.8	1114.2	959.4	903.9	869.6	844.7	823.7	808.4	806.5
17.5°	4686.1	3524.2	1641.6	1003.4	900.2	844.7	810.4	779.7	762.5	745.4	743.4
20°	4917.3	3520.4	1419.9	925.0	840.9	785.5	749.2	720.5	703.3	684.2	682.2
22.5°	5131.5	3501.2	1225.1	858.1	779.7	726.2	686.1	657.4	640.2	624.9	623.0
25°	5378.0	3485.9	1062.6	796.9	722.4	668.9	624.9	598.2	579.1	565.7	563.8
27.5°	5615.0	3463.0	944.1	741.5	667.0	615.4	573.4	542.7	525.5	516.0	516.0
30°	5848.1	3457.2	900.2	688.0	617.3	565.7	523.7	495.0	481.6	477.8	475.9
32.5°	6129.1	3472.6	919.2	668.9	571.4	519.9	479.7	458.7	445.3	445.3	445.3
35°	6429.1	3468.7	947.9	686.1	540.9	474.0	443.4	430.0	416.7	416.7	416.7
37.5°	6805.6	3474.4	970.9	714.7	529.4	435.7	418.5	401.4	393.7	393.7	393.7
40°	7367.5	3663.7	959.4	739.6	525.5	409.0	374.5	368.9	363.2	363.2	363.2
42.5°	8055.5	4074.6	974.7	741.5	523.7	389.9	344.0	355.5	342.1	340.2	338.2
45°	8808.4	4523.7	1072.1	701.4	521.7	380.3	328.7	342.1	321.0	321.0	321.0
47.5°	9555.8	4969.0	1171.6	644.0	516.0	378.4	315.3	307.7	302.0	303.9	303.9
50°	10585.9	5332.0	1209.7	565.7	502.7	374.5	290.5	292.4	288.5	292.4	292.4
52.5°	11707.7	5408.5	1163.9	477.8	464.4	363.2	273.3	281.0	279.0	282.9	282.9
55°	12407.2	5326.4	961.3	397.5	405.2	317.2	256.0	271.4	271.4	271.4	271.4
57.5°	13129.5	4976.6	682.2	323.0	336.4	259.9	240.8	261.8	259.9	258.0	258.0
60°	13649.4	4410.9	449.2	265.7	267.5	214.0	223.7	246.5	244.7	235.0	235.0
62.5°	14037.4	3785.9	288.5	225.5	204.5	193.0	204.5	223.7	216.0	195.0	191.2
65°	13993.4	2920.2	221.7	193.0	168.2	168.2	177.7	195.0	172.0	137.6	133.8
67.5°	13177.4	1976.1	183.5	162.5	141.4	139.5	147.2	162.5	147.2	116.5	112.7
70°	11719.1	1291.9	147.2	126.2	112.7	103.2	118.5	139.5	124.2	93.7	89.8
72.5°	9511.8	787.4	110.8	91.7	82.2	66.9	93.7	114.7	99.4	68.8	65.0
75°	6153.9	401.4	76.5	59.2	44.0	40.2	68.8	86.0	68.8	42.0	36.3
77.5°	2354.5	168.2	42.0	26.8	23.0	19.1	38.2	51.6	28.7	9.5	7.7
80°	452.9	70.7	21.0	13.4	11.5	7.7	5.7	3.8	0.0	0.0	0.0
82.5°	78.3	23.0	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	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)