

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: LUMARK

Report Number: P961468

Luminaire Tested: **NAV-SB2A-750-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961468
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: LUMARK
Catalog Number: NAV-SB2A-750-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 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: 8236.9 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

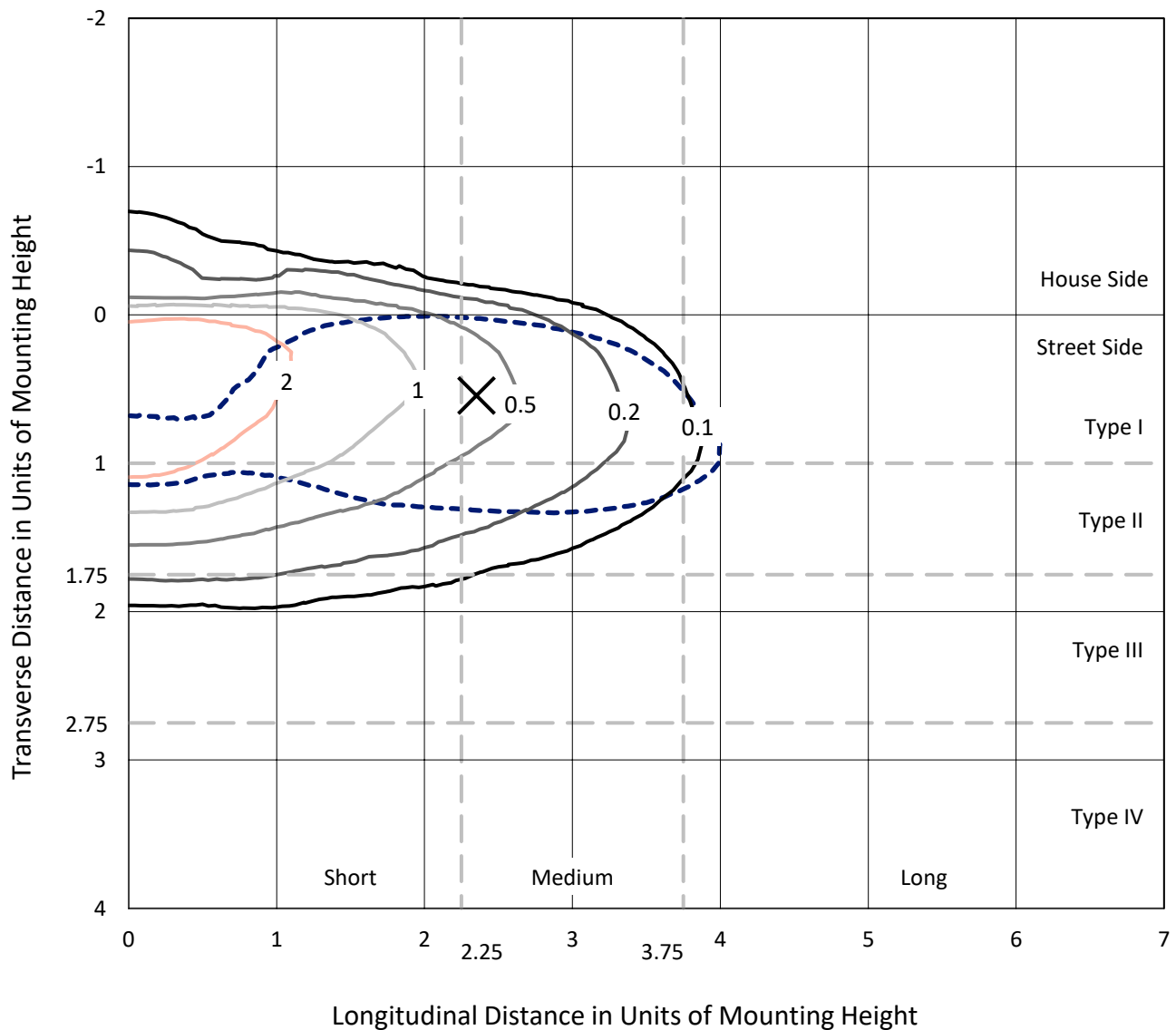
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

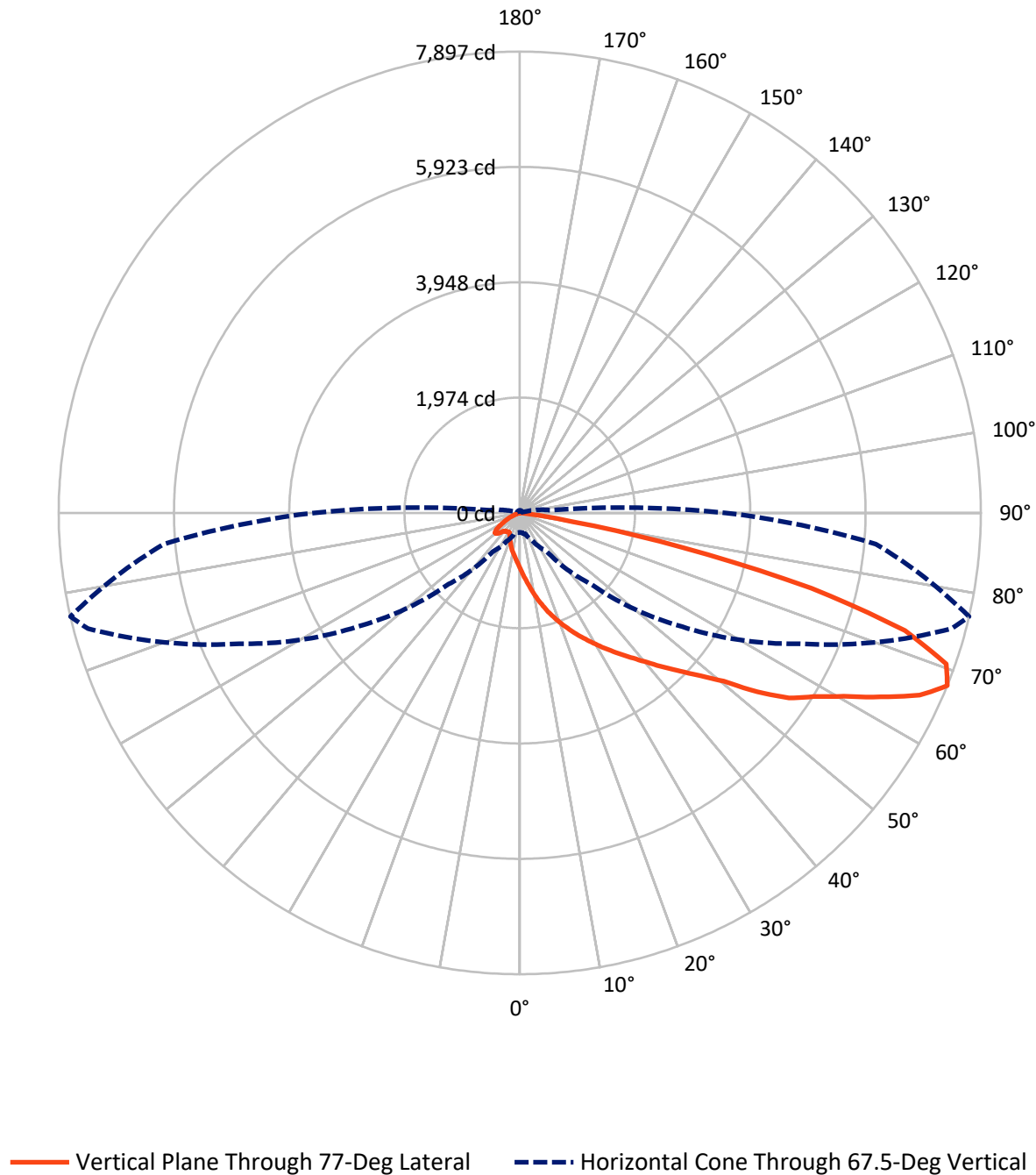
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	606.0	0.0	606.0
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	7630.9	0.0	7630.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	8236.9	0.0	8236.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.2
10°-20°	339.5	4.1
20°-30°	655.1	8.0
30°-40°	1137.3	13.8
40°-50°	1651.4	20.0
50°-60°	1896.4	23.0
60°-70°	1646.4	20.0
70°-80°	775.5	9.4
80°-90°	38.3	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°	8236.9	100.0
0°-180°	8236.9	100.0

Coefficient of Utilization



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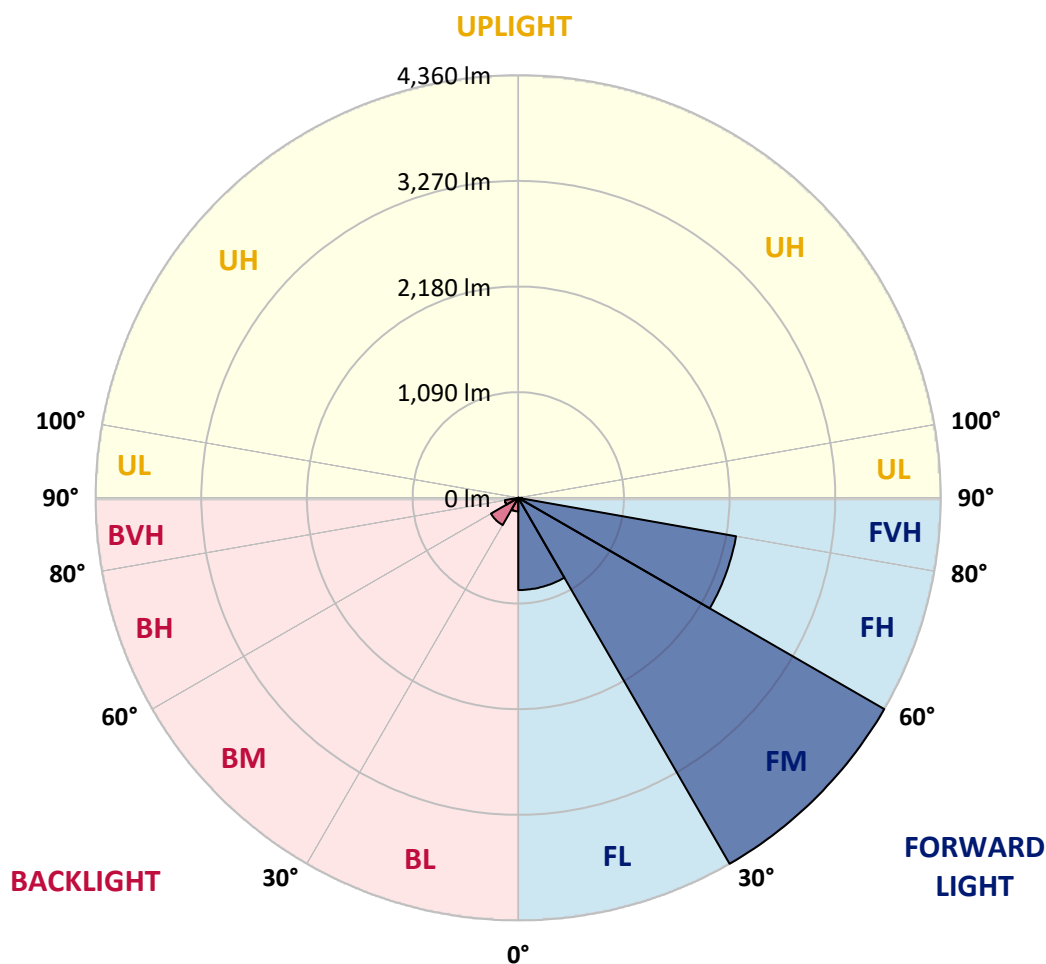
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	951.3	11.5			
FM	(30°-60°)	4360.4	52.9			
FH	(60°-80°)	2281.6	27.7			G2/5000
FVH	(80°-90°)	37.6	0.5			G1/100
BL	(0°-30°)	140.3	1.7	B1/500		
BM	(30°-60°)	324.7	3.9	B1/1000		
BH	(60°-80°)	140.3	1.7	B1/500		G1/500
BVH	(80°-90°)	0.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9
2.5°	1315.1	1323.2	1311.5	1288.9	1255.2	1233.2	1179.5	1128.8	1072.6	1054.7	998.5
5°	1603.0	1610.2	1596.8	1572.4	1527.4	1484.3	1413.8	1307.9	1197.9	1162.7	1062.9
7.5°	1816.3	1820.4	1815.3	1792.7	1749.8	1701.2	1622.5	1497.1	1333.9	1295.1	1142.2
10°	1969.7	1983.1	1981.5	1972.8	1944.2	1904.8	1820.9	1678.2	1486.4	1436.2	1231.6
12.5°	2071.5	2086.4	2095.1	2114.5	2112.9	2087.9	2014.2	1863.3	1638.3	1579.5	1332.4
15°	2101.1	2117.0	2150.3	2195.3	2235.2	2248.0	2196.4	2045.0	1805.5	1730.4	1435.7
17.5°	2084.3	2108.8	2148.8	2219.8	2307.4	2365.1	2359.5	2220.4	1957.4	1871.5	1537.0
20°	2121.6	2145.2	2176.4	2236.2	2338.0	2442.9	2484.8	2388.1	2108.3	2018.3	1643.4
22.5°	2328.3	2324.2	2327.3	2337.0	2397.9	2501.7	2588.1	2540.6	2257.7	2165.6	1755.9
25°	2655.7	2637.2	2606.1	2553.4	2538.0	2588.1	2678.1	2675.6	2415.2	2316.5	1871.0
27.5°	3031.1	3028.1	2954.9	2828.0	2756.4	2737.0	2779.9	2807.1	2571.2	2465.8	1986.7
30°	3390.7	3398.8	3300.1	3158.9	3027.5	2951.3	2912.4	2931.8	2729.8	2627.0	2105.8
32.5°	3703.7	3712.3	3605.0	3439.8	3277.1	3185.1	3103.2	3055.1	2902.7	2790.7	2236.8
35°	3968.2	3976.8	3853.6	3670.9	3497.6	3414.2	3321.6	3190.2	3076.6	2972.3	2382.5
37.5°	4204.4	4201.9	4036.7	3852.6	3682.2	3616.2	3567.6	3356.4	3255.6	3154.8	2544.2
40°	4344.1	4354.8	4213.7	4010.6	3845.4	3797.3	3794.2	3562.5	3462.2	3364.6	2721.2
42.5°	4385.0	4403.9	4301.6	4134.8	3985.0	3932.8	4013.2	3785.5	3702.7	3607.5	2921.1
45°	4311.4	4329.8	4283.2	4167.6	4080.1	4046.4	4201.4	4016.8	3959.5	3865.3	3146.6
47.5°	4096.5	4119.6	4130.8	4106.3	4105.2	4139.5	4370.2	4260.2	4264.3	4168.2	3408.0
50°	3680.7	3719.5	3822.8	3909.9	4044.3	4213.2	4534.4	4524.1	4608.0	4525.2	3748.7
52.5°	2924.7	2980.0	3336.0	3573.8	3876.0	4199.3	4714.9	4947.7	5211.1	5089.8	4228.9
55°	2350.3	2350.3	2639.8	3084.8	3547.7	4108.3	4793.7	5222.8	5621.8	5593.1	4567.1
57.5°	1916.0	1939.1	2123.7	2517.0	3072.5	3891.4	4842.3	5395.7	5952.7	5931.8	4897.6
60°	1182.5	1232.2	1581.1	1969.2	2531.9	3505.2	4811.6	5570.7	6354.3	6371.1	5295.5
62.5°	665.9	684.4	839.9	1416.9	1968.7	2986.0	4576.8	5668.4	6867.8	6939.4	5705.7
65°	459.8	469.0	528.9	881.8	1364.7	2377.4	4118.0	5607.5	7382.4	7527.1	6053.4
67.5°	334.0	338.6	376.0	538.6	809.6	1723.7	3398.8	5300.6	7654.9	7896.9	6120.0
70°	256.8	259.8	286.9	353.9	478.3	1063.8	2468.4	4690.4	7457.5	7746.5	5779.4
72.5°	208.7	211.8	232.8	261.9	317.1	629.1	1496.1	3809.1	6585.9	6897.9	4920.0
75°	176.0	180.1	199.0	217.9	248.6	404.1	701.7	2652.6	4952.8	5157.4	3421.3
77.5°	97.7	90.0	161.6	180.6	209.7	255.7	328.4	1561.1	2773.9	2830.5	1518.1
80°	60.9	62.9	128.4	145.2	161.1	128.9	150.4	601.0	961.6	913.5	294.1
82.5°	3.6	8.2	98.7	104.9	110.5	55.2	56.8	204.1	231.8	212.8	52.2
85°	0.0	0.0	45.0	36.3	38.3	15.9	16.4	47.6	31.2	33.7	10.2
87.5°	0.0	0.0	0.0	1.0	0.0	1.5	3.1	4.1	1.5	2.0	3.6
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°	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9	949.9
2.5°	962.6	926.8	854.2	783.1	725.3	671.6	633.2	596.9	578.5	577.5	576.5
5°	991.8	916.6	771.3	643.0	539.7	456.7	403.0	364.7	345.2	338.6	337.5
7.5°	1032.7	919.6	698.7	520.2	398.4	327.4	296.6	284.4	280.3	275.7	274.7
10°	1084.3	926.8	633.8	418.9	314.1	278.3	266.0	260.9	257.8	254.7	253.7
12.5°	1142.2	933.5	569.3	347.8	276.2	257.8	249.1	242.9	238.8	235.2	234.2
15°	1198.4	937.6	502.2	298.2	256.8	241.9	232.8	226.1	220.5	216.4	215.9
17.5°	1254.2	943.2	439.4	268.5	240.9	226.1	216.9	208.7	204.1	199.5	199.0
20°	1316.1	942.2	380.1	247.5	225.1	210.2	200.5	192.8	188.2	183.1	182.6
22.5°	1373.4	937.1	327.9	229.7	208.7	194.3	183.6	176.0	171.4	167.3	166.8
25°	1439.3	933.0	284.4	213.3	193.3	179.1	167.3	160.1	155.0	151.4	150.9
27.5°	1502.8	926.8	252.7	198.4	178.6	164.7	153.4	145.2	140.6	138.1	138.1
30°	1565.2	925.3	240.9	184.1	165.2	151.4	140.1	132.4	128.9	127.9	127.4
32.5°	1640.3	929.4	246.0	179.1	152.9	139.1	128.4	122.8	119.2	119.2	119.2
35°	1720.7	928.3	253.7	183.6	144.7	126.9	118.7	115.1	111.5	111.5	111.5
37.5°	1821.4	929.9	259.8	191.3	141.7	116.6	112.0	107.4	105.4	105.4	105.4
40°	1971.8	980.5	256.8	197.9	140.6	109.5	100.2	98.7	97.2	97.2	97.2
42.5°	2155.9	1090.5	260.9	198.4	140.1	104.3	92.0	95.1	91.5	91.0	90.5
45°	2357.5	1210.7	286.9	187.7	139.6	101.8	87.9	91.5	85.9	85.9	85.9
47.5°	2557.5	1329.8	313.5	172.4	138.1	101.3	84.4	82.3	80.8	81.3	81.3
50°	2833.1	1427.0	323.8	151.4	134.5	100.2	77.8	78.2	77.3	78.2	78.2
52.5°	3133.4	1447.5	311.5	127.9	124.3	97.2	73.2	75.2	74.7	75.7	75.7
55°	3320.6	1425.6	257.3	106.4	108.4	84.9	68.6	72.7	72.7	72.7	72.7
57.5°	3513.9	1331.9	182.6	86.4	90.0	69.6	64.5	70.1	69.6	69.1	69.1
60°	3653.1	1180.5	120.2	71.1	71.6	57.3	59.9	66.0	65.5	62.9	62.9
62.5°	3756.9	1013.2	77.3	60.4	54.7	51.7	54.7	59.9	57.8	52.2	51.1
65°	3745.1	781.6	59.3	51.7	45.0	45.0	47.6	52.2	46.0	36.8	35.8
67.5°	3526.7	528.9	49.1	43.5	37.8	37.3	39.4	43.5	39.4	31.2	30.1
70°	3136.5	345.7	39.4	33.7	30.1	27.6	31.7	37.3	33.2	25.1	24.1
72.5°	2545.7	210.7	29.6	24.6	22.0	17.9	25.1	30.6	26.5	18.4	17.4
75°	1647.0	107.4	20.5	15.9	11.8	10.8	18.4	23.1	18.4	11.3	9.7
77.5°	630.2	45.0	11.3	7.2	6.1	5.1	10.2	13.8	7.7	2.6	2.0
80°	121.3	19.0	5.6	3.6	3.1	2.0	1.5	1.0	0.0	0.0	0.0
82.5°	21.0	6.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	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)