

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: P961567

Luminaire Tested: **NAV-SB2A-830-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-830-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6878.8 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - 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

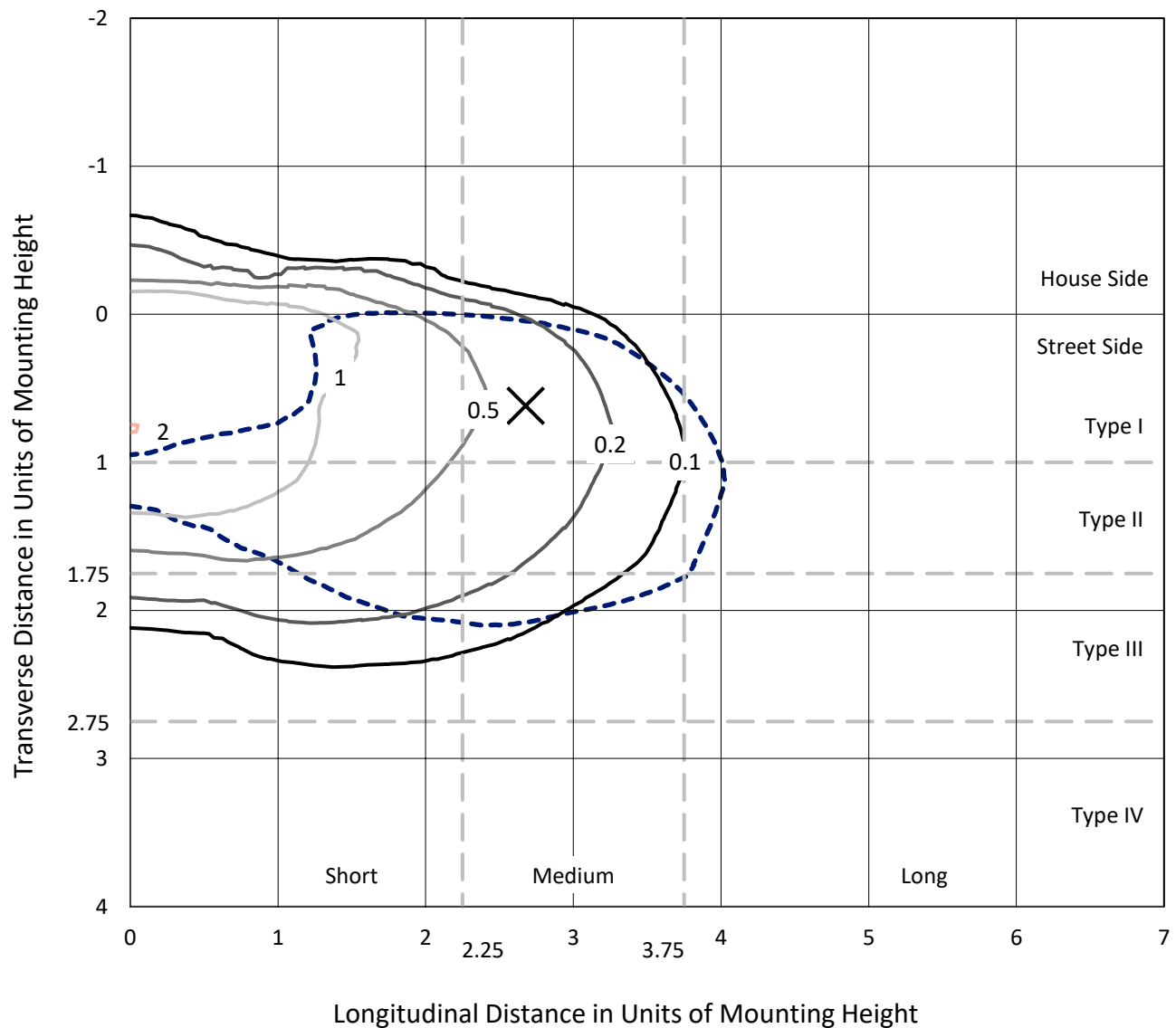


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Iso-Footcandle Lines of Horizontal Illumination

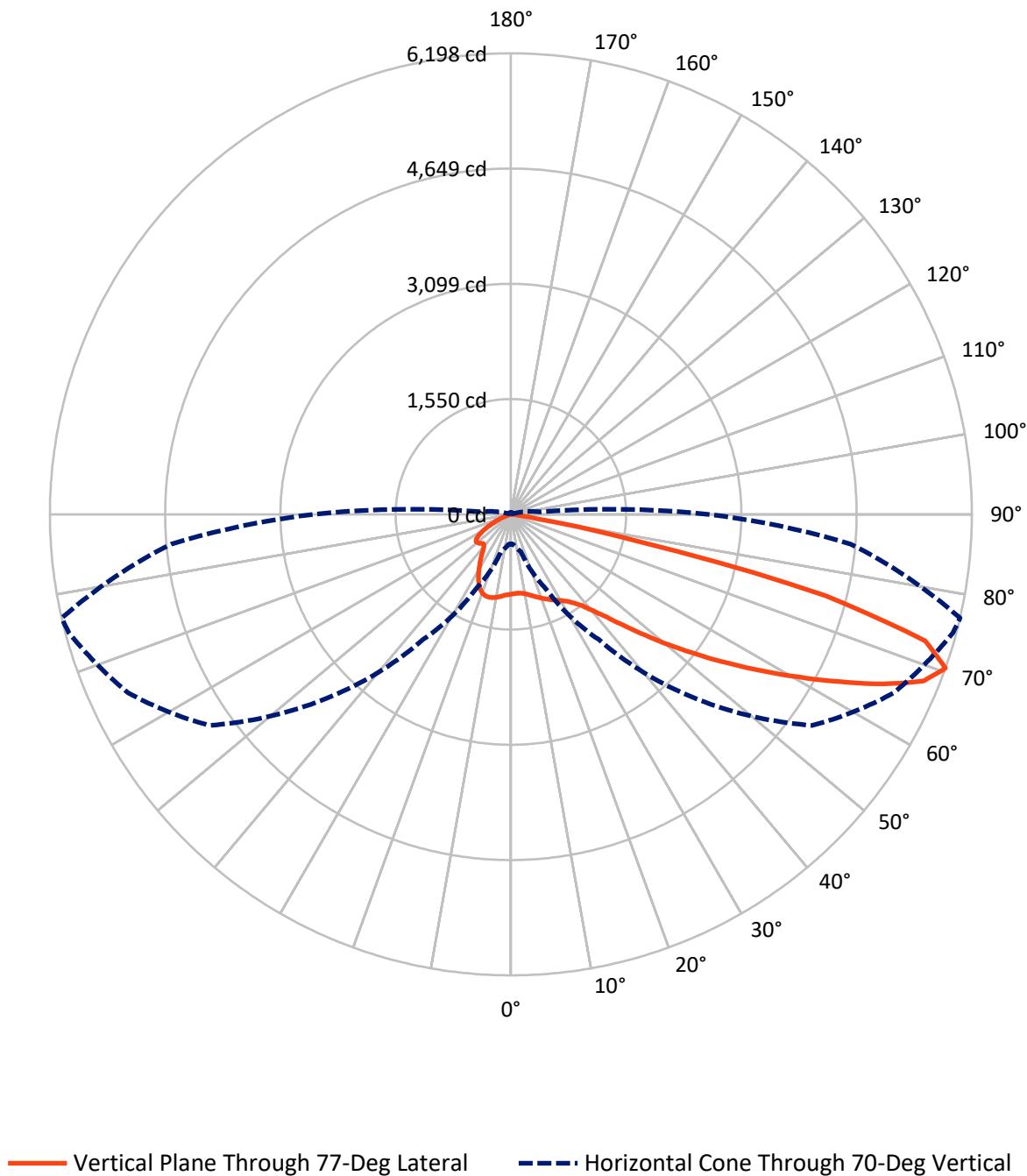
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	725.1	0.0	725.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	6153.6	0.0	6153.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	6878.8	0.0	6878.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	1.3
10°-20°	219.5	3.2
20°-30°	339.5	4.9
30°-40°	616.1	9.0
40°-50°	1163.0	16.9
50°-60°	1680.4	24.4
60°-70°	1788.7	26.0
70°-80°	947.9	13.8
80°-90°	31.1	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°	6878.8	100.0
0°-180°	6878.8	100.0

Coefficient of Utilization



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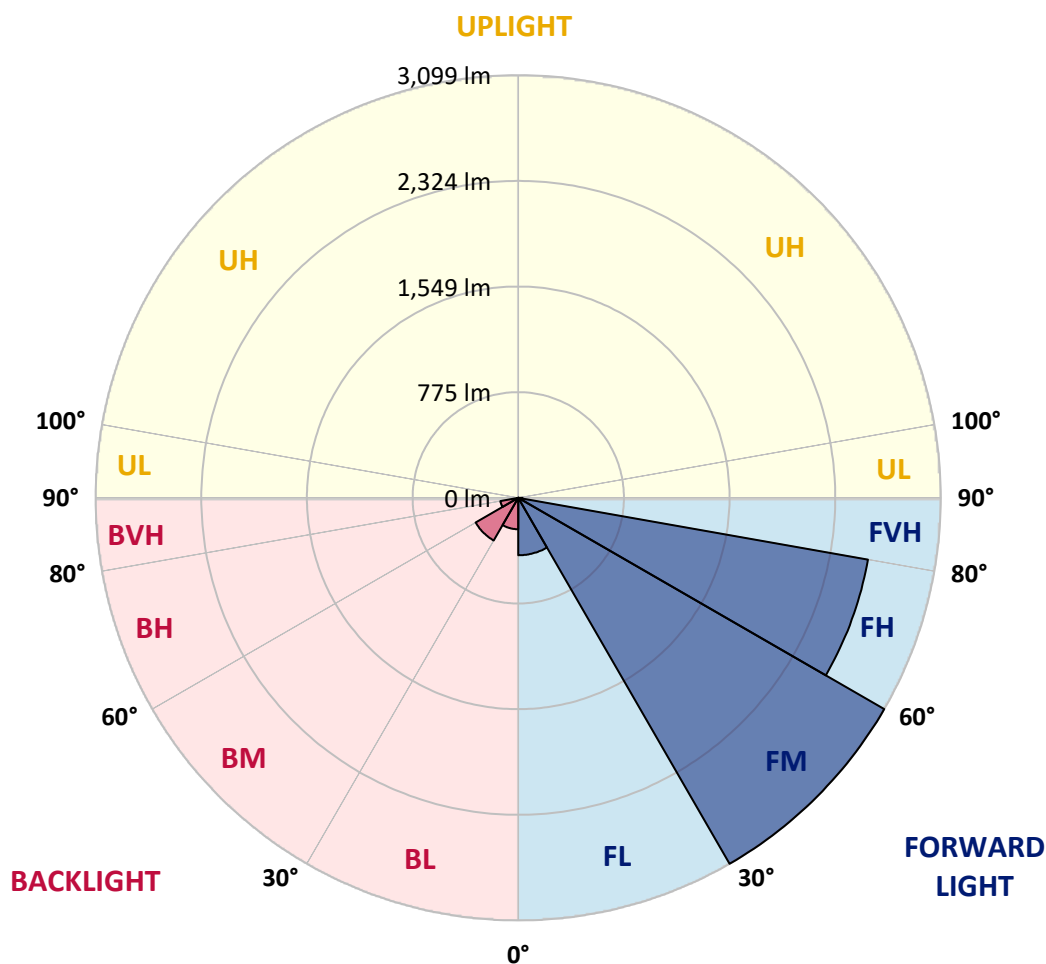
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	421.1	6.1			
FM	(30°-60°)	3098.5	45.0			
FH	(60°-80°)	2603.7	37.9			G2/5000
FVH	(80°-90°)	30.3	0.4			G1/100
BL	(0°-30°)	230.4	3.3	B1/500		
BM	(30°-60°)	361.0	5.2	B1/1000		
BH	(60°-80°)	132.9	1.9	B1/500		G1/500
BVH	(80°-90°)	0.8	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0
2.5°	1007.4	1016.5	1015.2	1021.3	1023.5	1032.2	1040.8	1052.6	1065.6	1065.2	1073.8
5°	950.5	959.6	961.8	970.1	980.4	993.9	1011.7	1035.1	1059.5	1063.4	1080.8
7.5°	883.1	892.7	898.3	914.8	934.0	961.8	990.9	1025.2	1065.6	1071.2	1104.6
10°	815.8	824.5	831.9	855.4	885.7	927.0	974.4	1023.9	1078.2	1086.4	1133.8
12.5°	774.1	782.4	790.6	811.0	848.8	899.2	963.5	1029.9	1099.0	1110.8	1173.3
15°	759.3	766.7	773.3	791.5	826.7	884.0	961.3	1042.5	1125.6	1141.1	1221.1
17.5°	761.5	765.4	769.8	783.6	817.9	877.1	965.2	1064.3	1156.8	1170.8	1268.8
20°	774.1	776.2	776.7	786.3	816.7	876.2	973.0	1085.2	1186.3	1205.0	1316.2
22.5°	790.2	791.0	790.2	796.7	824.9	882.7	983.5	1110.3	1219.3	1236.8	1364.0
25°	865.3	848.8	828.0	815.4	838.9	895.3	999.1	1144.2	1255.4	1272.3	1410.5
27.5°	1098.6	1051.2	976.5	892.7	867.5	913.6	1020.8	1178.5	1291.9	1307.1	1460.4
30°	1477.4	1415.3	1288.4	1099.4	959.6	951.8	1049.1	1212.9	1330.6	1347.1	1513.9
32.5°	1857.1	1841.8	1695.5	1434.0	1166.8	1036.9	1096.0	1259.3	1381.8	1394.8	1586.0
35°	2241.1	2210.2	2090.3	1831.9	1486.0	1210.2	1174.1	1320.1	1449.1	1463.9	1691.1
37.5°	2535.1	2516.5	2442.2	2229.4	1864.9	1477.8	1308.0	1414.4	1546.9	1563.4	1825.7
40°	2795.0	2786.3	2761.0	2620.7	2288.4	1828.0	1516.1	1560.4	1682.4	1702.0	1990.9
42.5°	2999.0	3019.5	3033.8	2994.7	2725.0	2227.6	1795.8	1765.4	1871.3	1891.3	2201.1
45°	3208.0	3215.0	3272.7	3329.2	3158.5	2645.5	2111.2	2005.6	2106.4	2131.2	2453.0
47.5°	3342.2	3370.1	3471.7	3571.2	3522.9	3059.9	2450.1	2289.2	2378.7	2425.3	2735.4
50°	3352.3	3404.8	3544.7	3718.0	3788.4	3454.4	2818.3	2612.5	2707.6	2758.9	3036.9
52.5°	3185.9	3267.6	3484.3	3738.0	3931.7	3788.4	3199.3	2935.7	3057.8	3124.6	3349.6
55°	2442.6	2549.5	3257.1	3629.4	3937.4	4041.7	3570.3	3272.3	3447.8	3523.4	3687.6
57.5°	2128.1	2182.0	2560.8	3440.8	3832.7	4143.8	3905.7	3592.9	3872.2	3966.0	4006.9
60°	1770.6	1841.4	2147.7	3132.4	3690.6	4153.7	4202.0	4006.4	4332.3	4437.8	4299.7
62.5°	1203.2	1280.1	1584.6	2602.5	3496.5	4148.9	4444.8	4432.2	4843.5	4956.9	4547.7
65°	745.4	793.7	994.4	2125.0	3225.0	4154.1	4698.9	4949.1	5383.1	5498.2	4739.7
67.5°	589.1	611.2	715.9	1631.6	2757.1	4036.9	4952.6	5435.2	5890.9	5982.1	4798.3
70°	395.8	409.2	520.8	1093.8	2051.2	3495.6	4947.8	5679.3	6152.4	6198.0	4584.6
72.5°	208.5	218.9	304.5	506.6	1238.9	2484.8	4170.6	5387.4	5892.2	5823.5	3918.7
75°	104.2	121.7	205.0	257.2	529.1	1385.7	2589.9	4247.6	4637.6	4371.8	2514.3
77.5°	79.0	95.5	169.4	169.4	184.2	466.6	1096.9	2316.6	2136.8	1779.3	738.0
80°	50.4	65.2	148.1	128.1	76.9	118.6	285.9	649.0	454.0	345.3	134.3
82.5°	29.5	42.5	123.4	84.7	43.0	43.9	80.8	138.2	117.8	91.6	41.3
85°	11.7	27.8	84.7	33.4	16.9	10.9	24.3	29.5	24.3	18.2	10.5
87.5°	0.0	6.6	14.8	0.0	1.3	0.8	1.7	2.2	2.2	1.7	3.5
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°	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0	1073.0
2.5°	1077.8	1078.6	1081.2	1081.7	1075.5	1067.7	1064.7	1063.4	1058.2	1057.8	1058.6
5°	1090.8	1094.7	1090.8	1079.5	1052.6	1014.7	986.0	962.6	941.4	934.8	930.9
7.5°	1116.8	1120.7	1109.0	1064.7	996.9	921.8	854.0	806.3	763.2	747.1	740.7
10°	1154.1	1159.4	1122.5	1033.0	913.1	792.3	677.6	596.9	533.9	508.3	497.4
12.5°	1201.1	1203.2	1129.9	984.8	804.1	631.6	469.1	382.7	326.7	305.9	299.3
15°	1252.8	1249.8	1130.8	919.2	655.5	446.6	306.3	251.5	228.9	222.0	222.0
17.5°	1307.1	1294.5	1113.4	824.5	492.6	305.3	227.1	214.1	210.2	208.5	208.1
20°	1360.6	1332.3	1081.7	700.7	353.6	228.1	206.3	202.4	200.3	199.4	198.5
22.5°	1409.2	1361.0	1027.4	556.9	256.8	201.5	195.1	191.6	187.7	185.9	185.5
25°	1456.5	1377.5	950.9	422.7	205.5	188.5	183.3	176.8	171.6	169.4	168.5
27.5°	1502.5	1388.0	855.4	312.7	183.3	176.4	166.8	157.6	153.8	152.9	152.0
30°	1551.6	1391.3	746.7	233.3	169.8	161.1	147.3	136.8	134.7	135.1	135.1
32.5°	1611.6	1396.6	637.2	191.2	158.6	142.9	126.4	115.5	113.8	115.5	115.1
35°	1683.3	1407.0	531.7	175.9	148.5	124.2	106.4	97.3	95.5	96.9	96.5
37.5°	1780.6	1423.9	433.1	172.9	140.3	108.6	89.5	82.1	82.1	82.5	82.1
40°	1910.1	1469.1	344.9	170.8	136.0	96.9	75.5	72.6	73.8	74.7	74.7
42.5°	2067.7	1565.2	285.4	168.1	131.2	91.6	68.7	67.3	69.5	70.4	70.4
45°	2244.5	1686.7	264.6	163.8	126.9	95.1	65.6	63.9	66.4	66.9	67.3
47.5°	2427.4	1805.8	262.0	159.0	122.5	100.3	64.7	60.8	63.9	64.3	64.7
50°	2612.5	1883.5	264.6	151.6	115.5	100.3	65.2	57.8	60.4	61.7	62.1
52.5°	2798.9	1919.2	262.8	135.5	103.4	94.3	65.2	55.1	57.8	58.6	58.6
55°	2979.6	1912.2	236.3	111.6	87.7	83.4	63.4	53.0	54.7	55.1	55.1
57.5°	3122.5	1815.4	187.3	86.9	71.2	69.5	57.8	50.4	51.7	51.2	51.2
60°	3197.2	1602.5	133.8	66.9	56.1	54.7	50.8	46.9	47.8	45.6	45.2
62.5°	3198.0	1321.0	89.5	53.0	44.8	43.5	43.5	42.1	41.3	36.9	35.7
65°	3129.8	1008.7	59.6	42.1	36.1	33.9	36.5	36.1	33.0	27.0	26.0
67.5°	2975.2	661.1	45.2	33.0	27.8	26.5	29.1	30.4	28.2	22.5	22.1
70°	2657.2	384.9	37.3	25.6	20.8	19.6	23.5	26.0	23.5	18.2	17.4
72.5°	2207.1	207.7	30.4	19.1	14.3	13.0	18.7	21.3	18.7	13.4	13.0
75°	1432.2	111.2	23.5	12.6	7.4	8.3	13.9	15.7	13.0	8.7	7.8
77.5°	480.9	49.1	14.8	6.0	3.5	3.5	8.3	9.5	6.0	3.1	2.6
80°	107.3	20.4	6.0	2.6	1.3	1.3	1.7	1.7	0.8	0.0	0.0
82.5°	35.2	8.3	2.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	13.4	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	0.4	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)