

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: P959980

Luminaire Tested: **NAV-SB1B-830-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959980
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-SB1B-830-U-T2R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

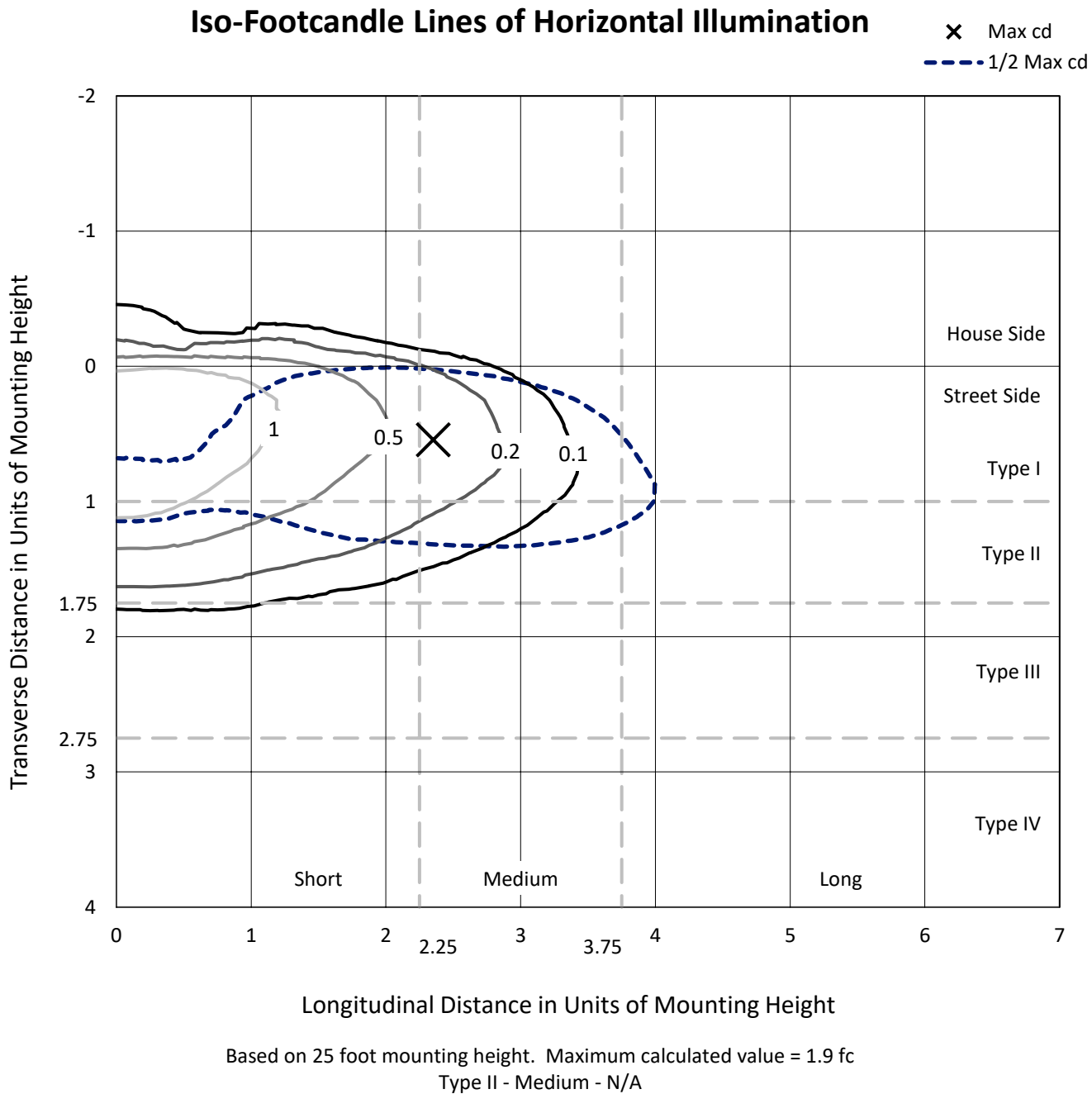
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4392.1 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 39.8
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

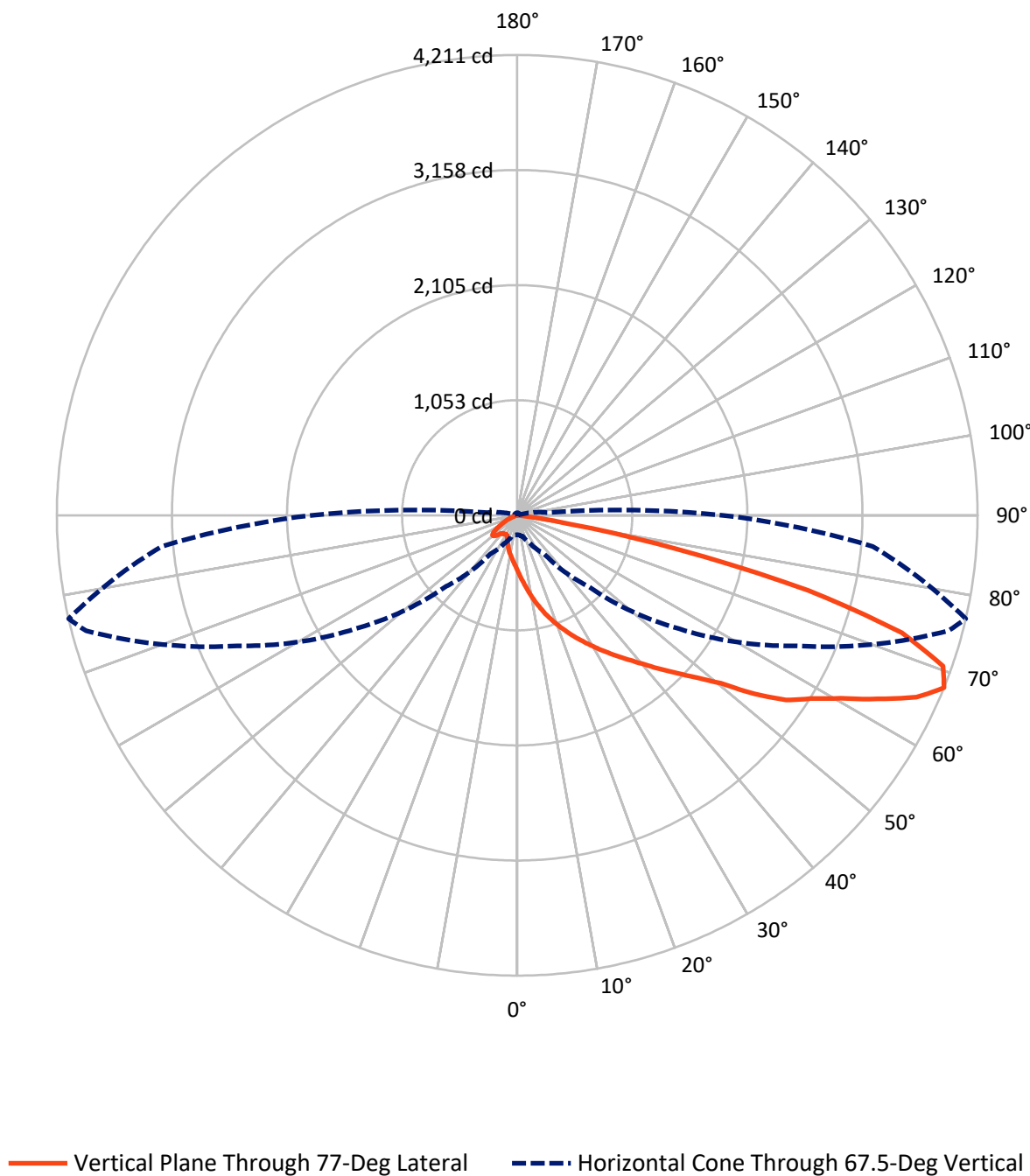


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	323.1	0.0	323.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	4069.0	0.0	4069.0
	% Fixture	92.6	0.0	92.6
Total	Lumens	4392.1	0.0	4392.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.2
10°-20°	181.0	4.1
20°-30°	349.3	8.0
30°-40°	606.5	13.8
40°-50°	880.5	20.0
50°-60°	1011.2	23.0
60°-70°	877.9	20.0
70°-80°	413.5	9.4
80°-90°	20.4	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°	4392.1	100.0
0°-180°	4392.1	100.0

Coefficient of Utilization



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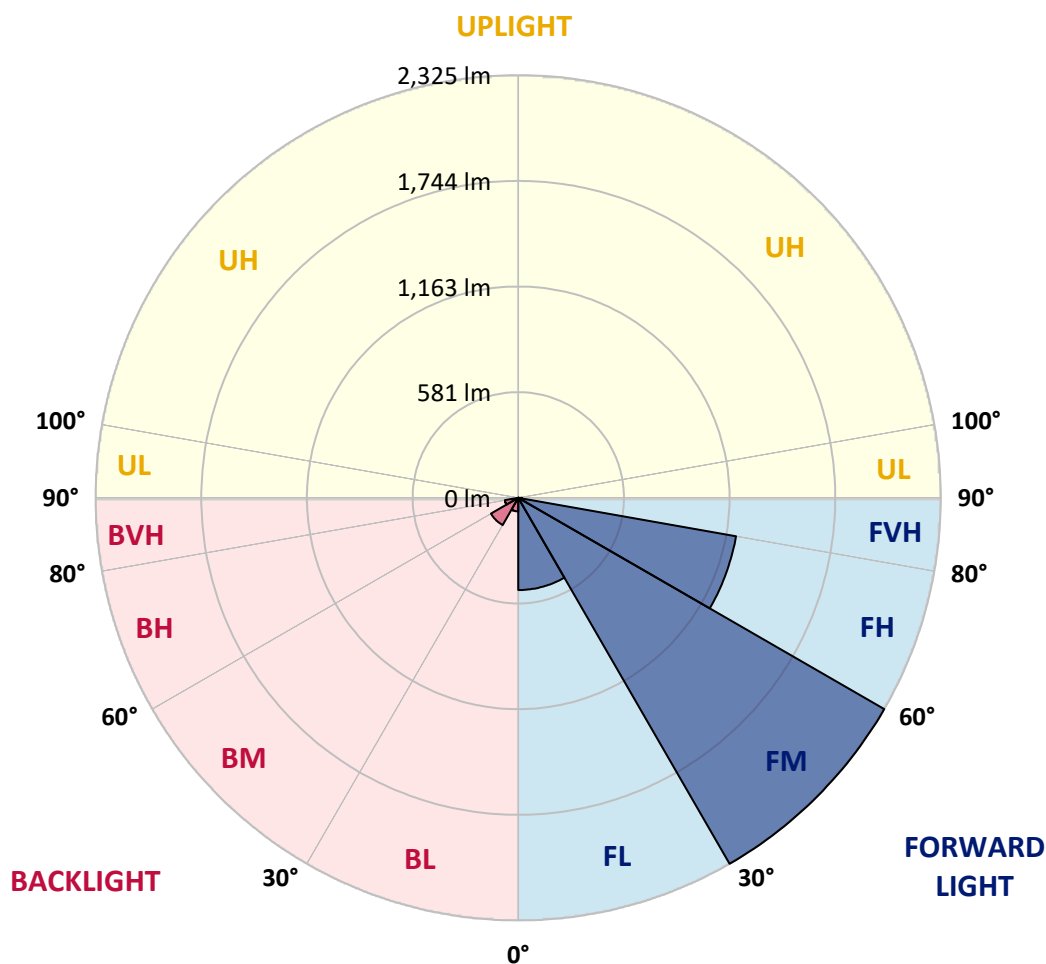
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	507.2	11.5			
FM	(30°-60°)	2325.1	52.9			
FH	(60°-80°)	1216.6	27.7			G1/1800
FVH	(80°-90°)	20.1	0.5			G1/100
BL	(0°-30°)	74.8	1.7	B0/110		
BM	(30°-60°)	173.1	3.9	B0/220		
BH	(60°-80°)	74.8	1.7	B0/110		G0/110
BVH	(80°-90°)	0.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5
2.5°	701.2	705.6	699.3	687.3	669.3	657.5	628.9	602.0	571.9	562.4	532.4
5°	854.7	858.5	851.5	838.4	814.4	791.5	753.9	697.4	638.8	619.9	566.7
7.5°	968.5	970.7	967.9	955.9	933.1	907.1	865.1	798.3	711.3	690.5	609.1
10°	1050.3	1057.4	1056.6	1052.0	1036.7	1015.7	971.0	894.8	792.5	765.9	656.7
12.5°	1104.6	1112.5	1117.1	1127.5	1126.7	1113.4	1074.1	993.6	873.6	842.2	710.5
15°	1120.4	1128.8	1146.6	1170.6	1191.9	1198.7	1171.2	1090.4	962.8	922.7	765.6
17.5°	1111.4	1124.5	1145.7	1183.7	1230.3	1261.2	1258.2	1184.0	1043.8	997.9	819.6
20°	1131.3	1143.9	1160.5	1192.4	1246.7	1302.6	1325.0	1273.5	1124.2	1076.2	876.3
22.5°	1241.5	1239.3	1241.0	1246.2	1278.6	1333.9	1380.1	1354.7	1203.9	1154.8	936.3
25°	1416.0	1406.2	1389.6	1361.5	1353.3	1380.1	1428.0	1426.7	1287.9	1235.2	997.6
27.5°	1616.2	1614.6	1575.6	1508.0	1469.7	1459.4	1482.4	1496.8	1371.0	1314.9	1059.3
30°	1808.0	1812.3	1759.7	1684.5	1614.4	1573.7	1553.0	1563.3	1455.6	1400.8	1122.9
32.5°	1974.9	1979.6	1922.3	1834.1	1747.4	1698.3	1654.7	1629.0	1547.7	1488.1	1192.7
35°	2115.9	2120.5	2054.8	1957.4	1865.0	1820.5	1771.2	1701.1	1640.5	1584.9	1270.4
37.5°	2241.9	2240.5	2152.5	2054.3	1963.5	1928.2	1902.4	1789.8	1735.9	1682.2	1356.6
40°	2316.4	2322.1	2246.8	2138.6	2050.4	2024.8	2023.1	1899.6	1846.1	1794.1	1451.0
42.5°	2338.2	2348.3	2293.7	2204.8	2124.9	2097.0	2139.9	2018.5	1974.4	1923.6	1557.6
45°	2298.9	2308.7	2283.9	2222.3	2175.7	2157.6	2240.2	2141.8	2111.3	2061.1	1677.9
47.5°	2184.4	2196.7	2202.6	2189.5	2189.0	2207.2	2330.2	2271.6	2273.9	2222.5	1817.2
50°	1962.7	1983.4	2038.4	2084.8	2156.5	2246.6	2417.9	2412.3	2457.1	2413.0	1999.0
52.5°	1559.5	1589.0	1778.8	1905.6	2066.8	2239.2	2514.1	2638.2	2778.7	2714.0	2255.0
55°	1253.3	1253.3	1407.6	1644.9	1891.7	2190.6	2556.1	2784.9	2997.7	2982.4	2435.3
57.5°	1021.7	1033.9	1132.4	1342.1	1638.4	2075.0	2582.0	2877.2	3174.1	3162.9	2611.5
60°	630.6	657.0	843.1	1050.0	1350.0	1869.1	2565.7	2970.4	3388.2	3397.3	2823.7
62.5°	355.1	364.9	447.8	755.5	1049.8	1592.2	2440.4	3022.5	3662.0	3700.2	3042.4
65°	245.2	250.1	282.0	470.2	727.6	1267.7	2195.9	2990.0	3936.4	4013.6	3227.8
67.5°	178.1	180.5	200.5	287.2	431.7	919.1	1812.3	2826.4	4081.9	4210.8	3263.3
70°	136.9	138.6	153.0	188.7	255.0	567.3	1316.2	2501.0	3976.5	4130.6	3081.7
72.5°	111.3	113.0	124.1	139.6	169.1	335.5	797.8	2031.0	3511.8	3678.1	2623.5
75°	93.8	96.0	106.1	116.2	132.5	215.5	374.2	1414.4	2640.9	2750.1	1824.4
77.5°	52.1	48.0	86.2	96.2	111.8	136.3	175.1	832.4	1479.1	1509.3	809.4
80°	32.5	33.5	68.5	77.5	85.9	68.8	80.2	320.5	512.7	487.1	156.8
82.5°	1.9	4.4	52.7	55.9	58.9	29.4	30.2	108.9	123.5	113.5	27.8
85°	0.0	0.0	24.0	19.4	20.5	8.4	8.7	25.3	16.6	18.0	5.4
87.5°	0.0	0.0	0.0	0.5	0.0	0.8	1.6	2.2	0.8	1.1	1.9
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°	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5	506.5
2.5°	513.3	494.2	455.5	417.6	386.7	358.1	337.6	318.3	308.4	307.9	307.4
5°	528.8	488.7	411.3	342.9	287.7	243.5	214.9	194.4	184.1	180.5	180.0
7.5°	550.6	490.4	372.6	277.4	212.5	174.6	158.2	151.6	149.4	147.0	146.5
10°	578.2	494.2	337.9	223.3	167.5	148.4	141.9	139.1	137.5	135.8	135.3
12.5°	609.1	497.7	303.6	185.4	147.3	137.5	132.8	129.6	127.4	125.5	124.9
15°	639.0	499.9	267.8	159.0	136.9	129.0	124.1	120.5	117.6	115.4	115.1
17.5°	668.7	503.0	234.3	143.2	128.4	120.5	115.6	111.3	108.9	106.4	106.1
20°	701.7	502.4	202.6	132.0	120.0	112.1	106.9	102.8	100.3	97.7	97.4
22.5°	732.3	499.7	174.9	122.5	111.3	103.6	97.9	93.8	91.3	89.2	88.9
25°	767.5	497.4	151.6	113.8	103.1	95.4	89.2	85.4	82.6	80.8	80.5
27.5°	801.3	494.2	134.7	105.8	95.2	87.8	81.8	77.5	75.0	73.6	73.6
30°	834.6	493.4	128.4	98.2	88.0	80.8	74.7	70.6	68.8	68.2	68.0
32.5°	874.6	495.6	131.2	95.4	81.6	74.2	68.5	65.5	63.6	63.6	63.6
35°	917.5	495.0	135.3	97.9	77.2	67.6	63.2	61.4	59.4	59.4	59.4
37.5°	971.2	495.8	138.6	102.0	75.5	62.2	59.8	57.3	56.2	56.2	56.2
40°	1051.4	522.9	136.9	105.6	75.0	58.3	53.5	52.7	51.9	51.9	51.9
42.5°	1149.6	581.5	139.1	105.8	74.7	55.7	49.1	50.7	48.8	48.6	48.3
45°	1257.1	645.5	153.0	100.1	74.4	54.3	46.9	48.8	45.8	45.8	45.8
47.5°	1363.7	709.1	167.2	91.9	73.6	54.0	45.0	43.9	43.0	43.4	43.4
50°	1510.7	761.0	172.6	80.8	71.8	53.5	41.4	41.7	41.2	41.7	41.7
52.5°	1670.7	771.8	166.0	68.2	66.3	51.9	39.1	40.1	39.8	40.4	40.4
55°	1770.6	760.1	137.1	56.7	57.8	45.3	36.6	38.7	38.7	38.7	38.7
57.5°	1873.7	710.2	97.4	46.1	48.0	37.1	34.3	37.4	37.1	36.8	36.8
60°	1947.9	629.5	64.1	37.9	38.2	30.5	31.9	35.2	35.0	33.5	33.5
62.5°	2003.3	540.3	41.2	32.2	29.2	27.6	29.2	31.9	30.9	27.8	27.3
65°	1997.0	416.8	31.7	27.6	24.0	24.0	25.3	27.8	24.5	19.7	19.1
67.5°	1880.6	282.0	26.1	23.2	20.2	19.9	21.0	23.2	21.0	16.6	16.1
70°	1672.4	184.4	21.0	18.0	16.1	14.8	16.9	19.9	17.7	13.3	12.8
72.5°	1357.4	112.3	15.8	13.1	11.7	9.5	13.3	16.4	14.1	9.8	9.2
75°	878.2	57.3	10.9	8.4	6.3	5.7	9.8	12.3	9.8	6.0	5.2
77.5°	336.0	24.0	6.0	3.8	3.3	2.8	5.4	7.4	4.1	1.3	1.1
80°	64.7	10.0	3.0	1.9	1.6	1.1	0.8	0.5	0.0	0.0	0.0
82.5°	11.2	3.3	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	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)