

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: P962617

Luminaire Tested: **NAV-SB2C-830-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-830-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

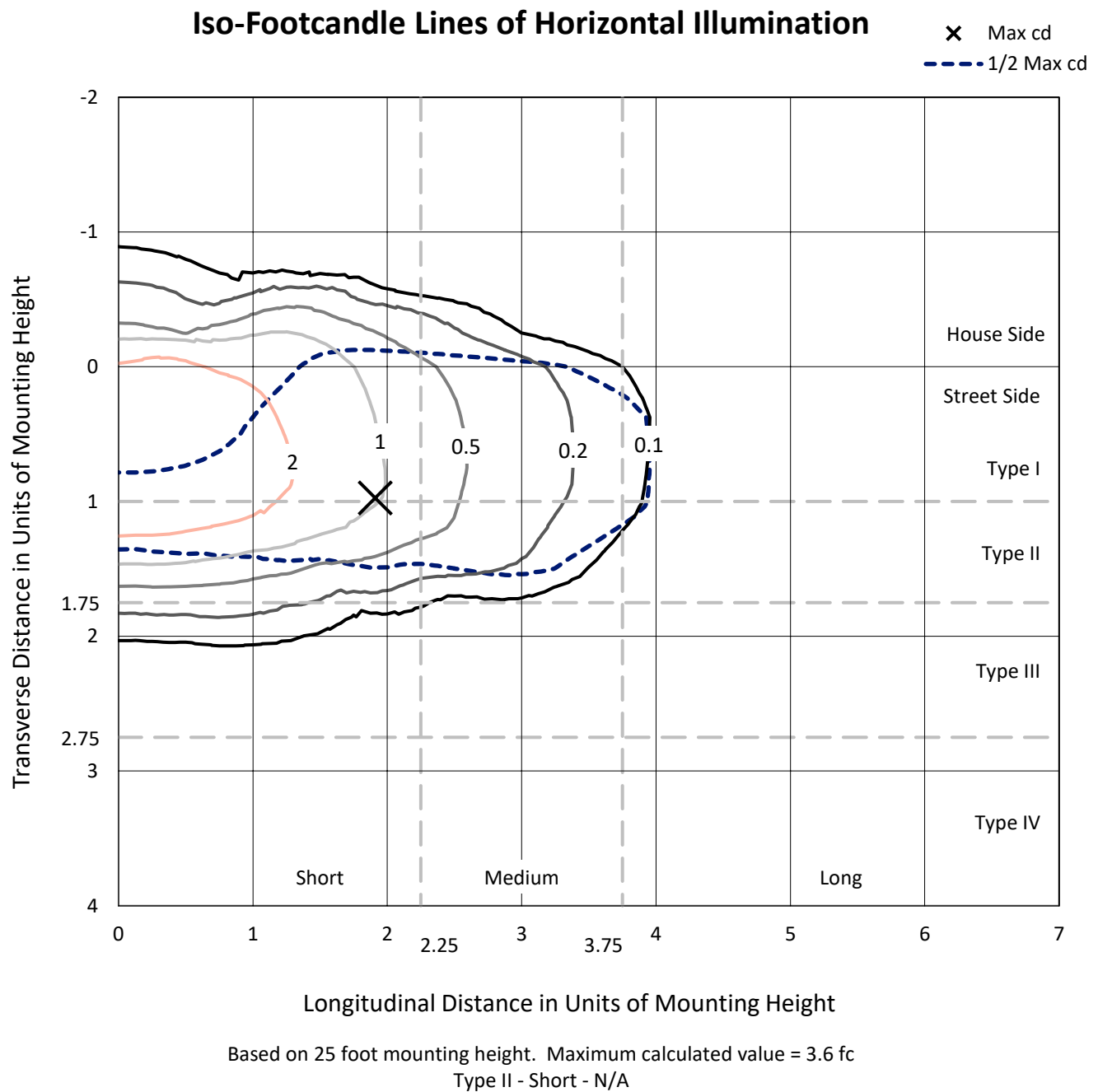
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10542.1 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 100.9
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

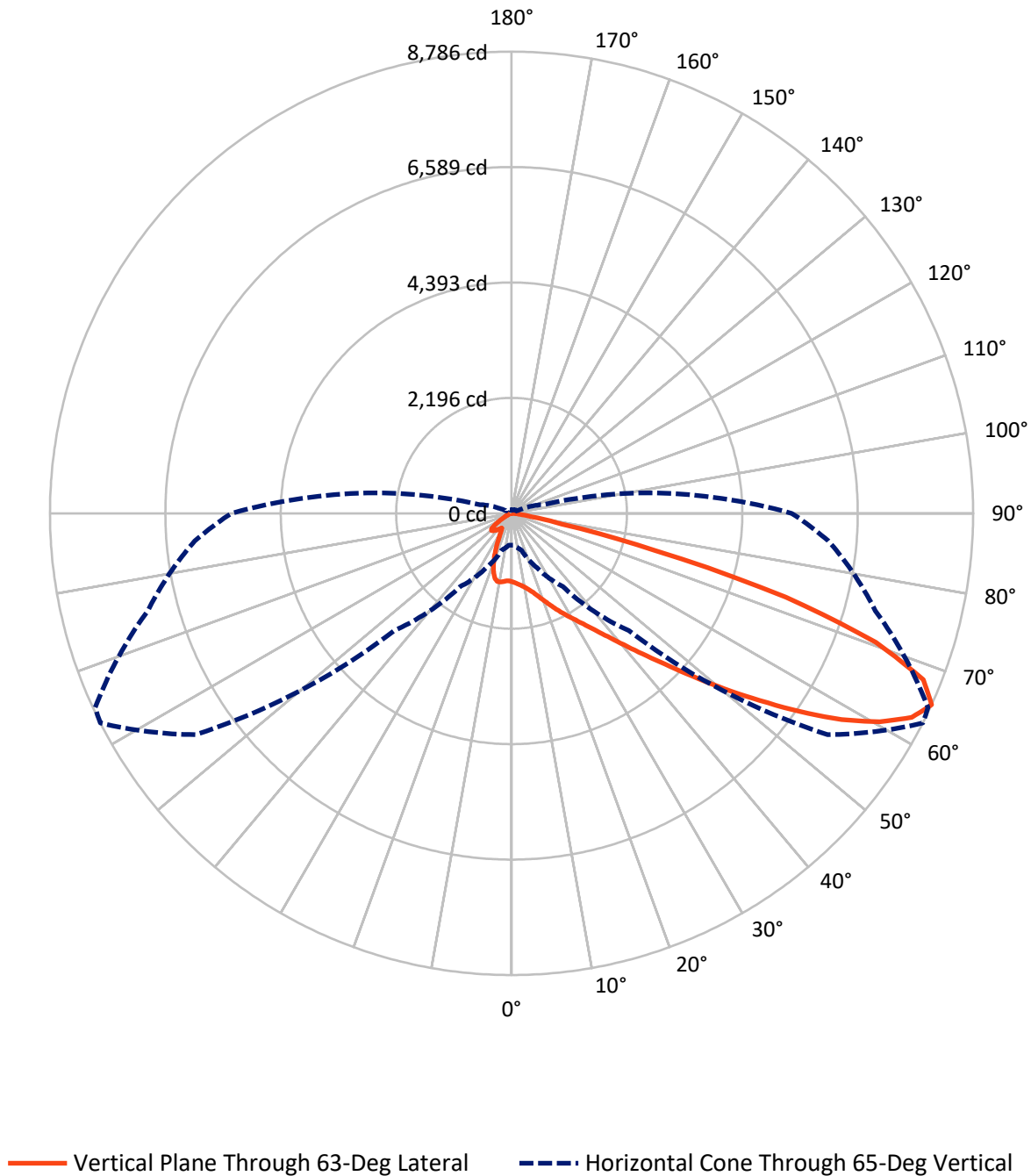


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1549.6	0.0	1549.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	8992.5	0.0	8992.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	10542.1	0.0	10542.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	1.2
10°-20°	340.1	3.2
20°-30°	592.3	5.6
30°-40°	1067.5	10.1
40°-50°	2117.2	20.1
50°-60°	2883.9	27.4
60°-70°	2302.0	21.8
70°-80°	1041.7	9.9
80°-90°	74.9	0.7
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°	10542.1	100.0
0°-180°	10542.1	100.0

Coefficient of Utilization



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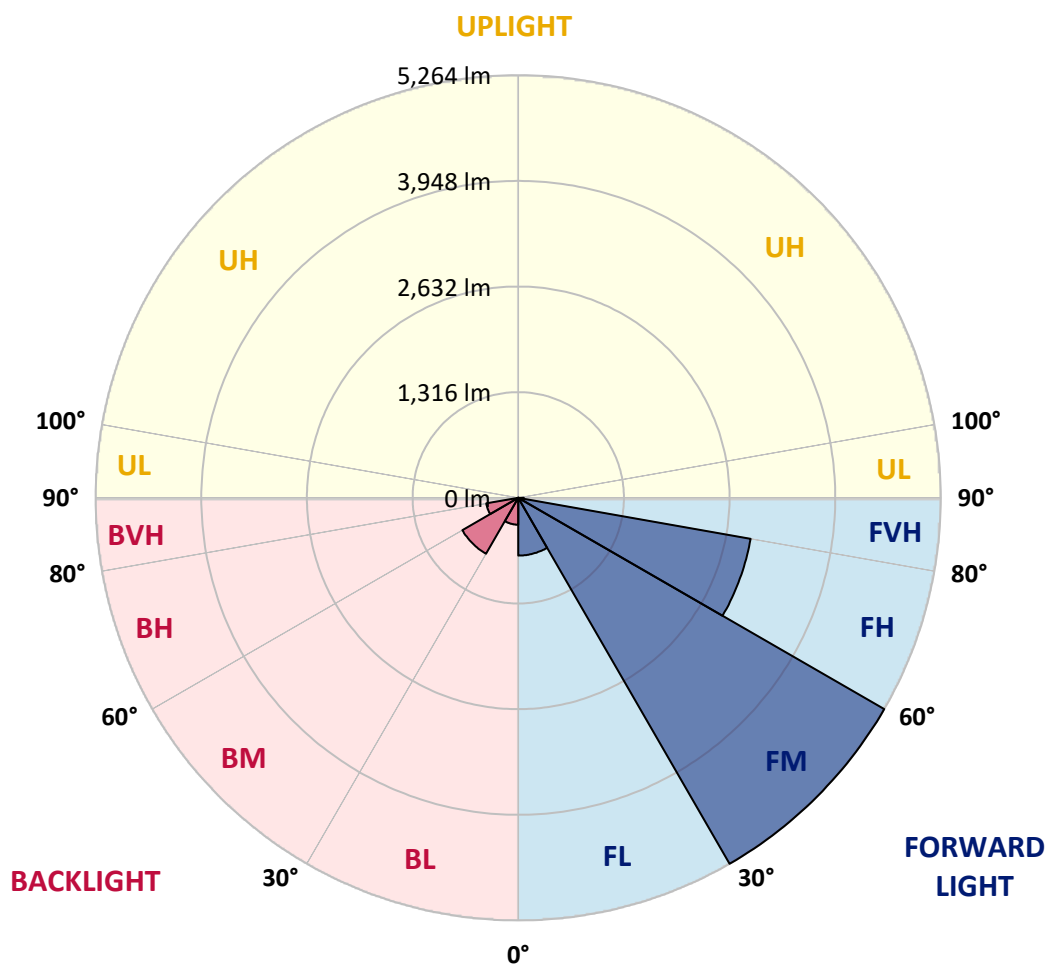
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	719.6	6.8			
FM	(30°-60°)	5264.5	49.9			
FH	(60°-80°)	2939.1	27.9			G2/5000
FVH	(80°-90°)	69.3	0.7			G1/100
BL	(0°-30°)	335.4	3.2	B1/500		
BM	(30°-60°)	804.2	7.6	B1/1000		
BH	(60°-80°)	404.5	3.8	B1/500		G1/500
BVH	(80°-90°)	5.6	0.1			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1331.6	1327.9	1333.0	1330.9	1329.4	1326.5	1325.0	1323.6	1320.7	1318.5	1309.8
5°	1335.2	1333.0	1338.0	1342.4	1346.7	1351.2	1353.3	1356.2	1353.3	1347.5	1338.9
7.5°	1304.7	1303.3	1314.2	1327.2	1346.7	1363.5	1381.6	1391.7	1392.5	1390.3	1380.9
10°	1302.6	1298.9	1309.8	1325.7	1351.2	1380.9	1412.8	1434.6	1437.5	1446.9	1436.7
12.5°	1336.6	1333.0	1348.3	1365.6	1391.7	1422.9	1462.1	1492.6	1496.9	1509.9	1502.8
15°	1393.9	1388.9	1406.3	1428.7	1462.1	1497.6	1538.9	1566.5	1570.2	1586.1	1573.1
17.5°	1460.6	1455.6	1475.9	1499.8	1536.1	1584.6	1632.5	1663.0	1667.4	1677.5	1653.5
20°	1546.2	1539.8	1555.6	1577.4	1615.8	1673.8	1731.1	1774.7	1774.0	1774.0	1734.8
22.5°	1645.6	1635.4	1649.2	1666.6	1702.9	1773.2	1849.4	1900.9	1900.9	1880.6	1816.0
25°	1752.2	1742.1	1757.3	1773.2	1805.1	1884.9	1974.2	2037.9	2040.9	2006.0	1903.0
27.5°	1885.7	1872.6	1884.2	1903.0	1921.9	2003.2	2109.0	2183.0	2184.5	2130.8	1985.7
30°	2142.4	2105.4	2069.2	2048.9	2057.5	2138.0	2251.2	2333.1	2340.4	2266.4	2075.6
32.5°	2612.3	2605.1	2477.4	2310.7	2223.6	2283.1	2410.0	2508.7	2513.0	2418.0	2192.5
35°	3342.6	3334.0	3128.7	2811.1	2527.4	2477.4	2602.9	2719.7	2716.8	2609.4	2344.0
37.5°	4214.4	4206.5	3935.9	3510.9	3051.8	2771.2	2851.7	2974.2	2992.4	2851.7	2539.8
40°	4959.3	4929.5	4758.4	4348.6	3748.1	3258.6	3205.6	3286.9	3305.7	3138.9	2788.6
42.5°	5523.5	5498.1	5411.1	5155.0	4590.9	3979.5	3622.7	3653.8	3674.8	3474.6	3074.3
45°	5815.7	5810.0	5844.8	5820.9	5449.5	4864.2	4218.8	4088.9	4096.9	3846.7	3398.5
47.5°	5857.2	5854.2	6013.1	6237.8	6187.8	5862.2	4984.0	4631.5	4603.2	4266.7	3751.0
50°	5613.4	5607.7	5912.2	6333.6	6681.0	6700.6	5852.7	5242.9	5180.5	4701.1	4118.7
52.5°	4835.2	4833.8	5334.2	6035.5	6854.4	7434.5	6711.5	5914.5	5810.0	5160.9	4507.4
55°	3720.5	3747.4	4321.0	5150.0	6538.2	7787.7	7482.4	6659.9	6499.7	5623.6	4865.7
57.5°	2635.6	2674.7	3241.9	3980.2	5557.5	7578.8	8003.8	7407.0	7234.3	6084.8	5229.0
60°	1415.7	1450.5	2018.3	2899.5	4134.6	6800.0	8278.7	8055.4	7892.2	6522.9	5556.8
62.5°	843.5	855.1	1090.1	1871.9	2796.6	5195.0	8162.0	8549.2	8415.0	6890.6	5841.9
65°	605.6	607.7	726.0	1143.0	1697.8	3156.3	7343.1	8785.7	8744.4	7167.6	6052.9
67.5°	509.8	508.4	557.7	759.3	1156.8	1581.1	5628.0	8451.3	8626.8	7343.1	6172.5
70°	437.4	439.5	497.5	556.3	869.6	894.9	2798.0	7358.4	7732.6	7389.5	6165.4
72.5°	325.6	332.9	386.5	507.0	656.3	615.7	966.1	5456.1	6132.7	6962.4	5845.5
75°	229.9	233.5	271.9	426.4	489.5	448.2	493.1	2820.5	3687.8	5337.8	4784.5
77.5°	176.9	183.5	205.9	298.1	482.3	314.8	301.7	976.2	1499.8	3224.4	3280.3
80°	95.7	107.3	148.6	215.4	338.7	222.6	149.4	388.8	508.4	1507.8	1264.8
82.5°	49.3	55.1	103.7	155.2	192.9	194.3	74.0	161.7	209.6	465.7	173.3
85°	19.6	23.9	69.6	85.6	99.3	95.7	33.3	65.3	75.4	129.0	53.0
87.5°	4.3	7.3	25.4	19.6	18.9	20.3	8.0	15.3	14.6	15.3	9.4
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°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1309.0	1306.2	1298.2	1289.4	1279.3	1273.6	1269.9	1269.2	1264.1	1260.4	1264.1
5°	1330.9	1327.9	1312.7	1294.6	1275.0	1259.7	1245.3	1232.2	1213.3	1209.7	1208.3
7.5°	1374.3	1366.3	1341.7	1317.0	1280.0	1235.8	1182.1	1120.5	1065.4	1048.7	1040.7
10°	1428.0	1417.2	1385.9	1342.4	1260.4	1140.1	1010.2	889.9	794.2	767.3	757.2
12.5°	1488.9	1479.5	1438.2	1357.7	1178.5	960.2	761.5	612.1	519.3	496.1	489.5
15°	1561.5	1547.6	1490.4	1334.4	1032.1	729.6	523.0	434.4	401.1	396.7	392.4
17.5°	1638.4	1615.8	1536.8	1251.0	834.8	518.5	404.0	378.5	364.1	359.7	357.5
20°	1708.7	1679.7	1564.4	1124.8	623.7	404.0	361.9	345.2	332.2	327.1	324.2
22.5°	1779.0	1737.7	1564.4	952.9	467.8	358.2	332.2	316.9	301.7	295.2	291.5
25°	1852.3	1797.1	1536.8	761.5	376.4	328.5	303.9	287.2	274.2	266.2	263.2
27.5°	1923.4	1847.3	1473.7	580.2	335.1	302.5	277.8	261.8	249.5	243.6	243.6
30°	1990.9	1896.6	1385.2	440.2	308.2	277.1	253.8	240.1	227.8	221.9	222.6
32.5°	2082.2	1958.9	1291.0	361.2	285.1	253.1	232.1	219.0	208.2	203.8	203.8
35°	2209.1	2051.0	1209.7	354.6	265.5	233.5	212.5	200.2	189.3	185.6	185.6
37.5°	2389.0	2199.6	1167.0	398.2	249.5	216.2	196.5	183.5	173.3	170.5	169.7
40°	2610.9	2401.3	1190.1	441.7	238.6	200.9	182.0	169.0	160.3	156.6	155.9
42.5°	2874.2	2650.0	1318.5	475.1	231.3	187.9	168.3	153.8	147.9	146.5	146.5
45°	3176.6	2923.5	1515.1	510.6	219.8	175.5	154.5	143.6	139.3	138.5	137.8
47.5°	3520.4	3223.7	1742.8	554.8	208.2	163.9	143.6	136.3	132.7	131.3	131.3
50°	3861.3	3526.2	1977.0	579.4	198.7	153.0	134.9	129.0	126.2	125.5	125.5
52.5°	4218.1	3837.3	2166.3	556.3	190.8	144.3	127.6	123.3	120.4	119.6	119.6
55°	4558.2	4088.9	2198.9	472.1	174.8	135.6	119.6	117.5	113.9	113.9	113.2
57.5°	4851.2	4215.1	1968.3	346.7	158.9	122.6	111.7	109.5	106.6	105.9	105.2
60°	5120.3	4178.9	1519.4	233.5	141.4	109.5	101.6	100.0	97.2	93.6	92.9
62.5°	5271.9	4019.3	1039.2	152.3	124.0	95.7	89.9	89.2	82.7	75.4	74.0
65°	5329.2	3691.5	648.4	111.0	103.7	82.0	77.6	76.2	66.7	58.7	58.0
67.5°	5279.1	3152.0	327.1	87.7	82.0	68.2	63.9	63.9	57.3	50.0	49.3
70°	5078.9	2362.8	137.8	70.3	63.1	52.2	52.2	55.1	48.6	40.6	39.9
72.5°	4644.5	1589.8	73.3	53.7	47.2	37.0	42.7	45.0	38.4	30.4	30.4
75°	3692.3	969.6	50.7	39.9	29.7	26.1	32.6	34.1	26.1	20.3	19.6
77.5°	2525.3	557.0	34.1	25.4	18.9	15.3	22.4	21.0	13.7	9.4	10.1
80°	1108.9	232.1	19.6	11.6	7.3	5.8	8.0	5.8	4.3	2.9	2.9
82.5°	129.9	54.4	7.3	4.3	2.9	1.4	0.7	0.0	0.0	0.0	0.0
85°	26.9	6.6	3.6	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	1.4	0.7	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)