

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: P959415

Luminaire Tested: **NAV-SB1A-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

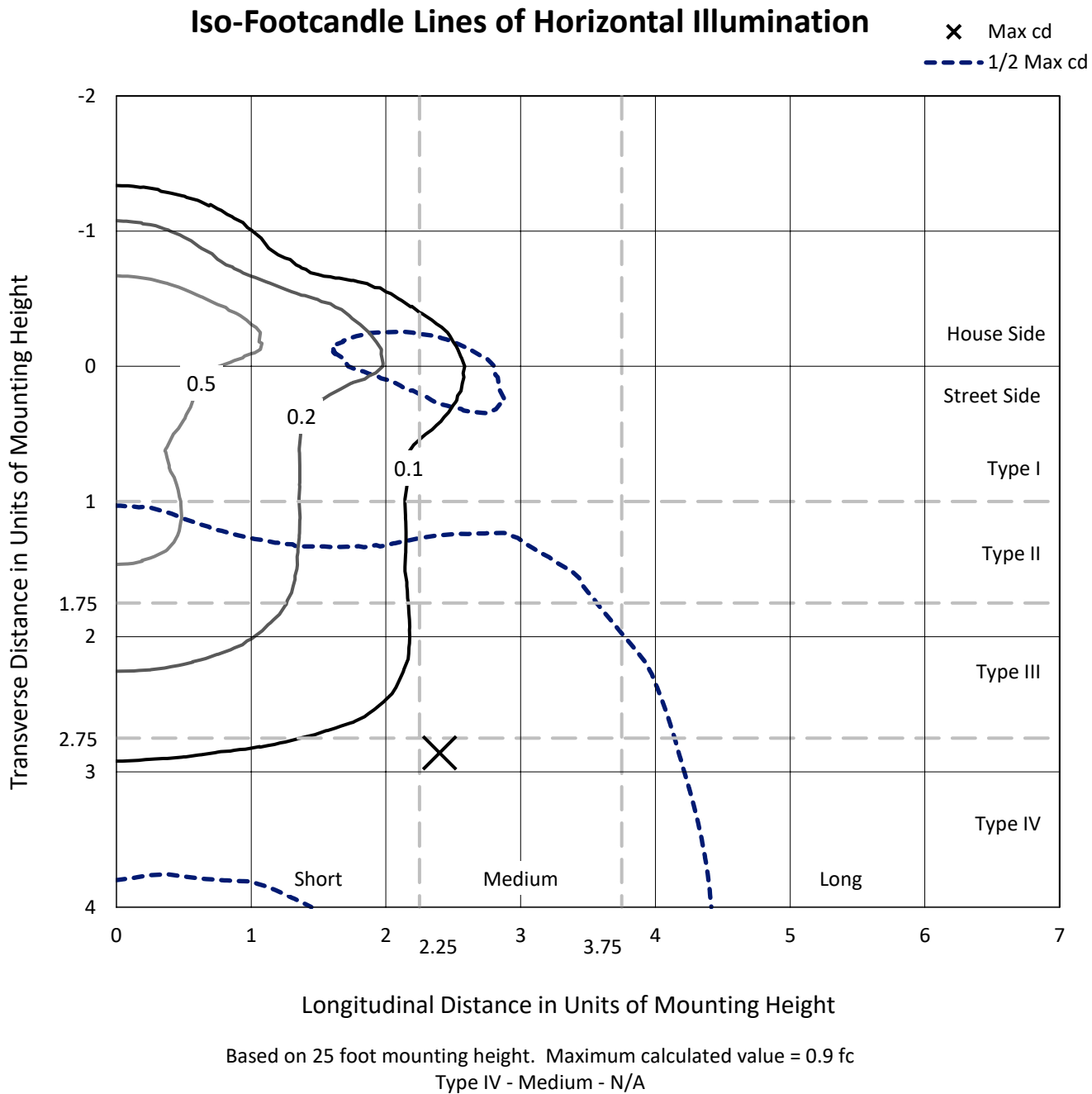
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3964.7 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 30.9
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

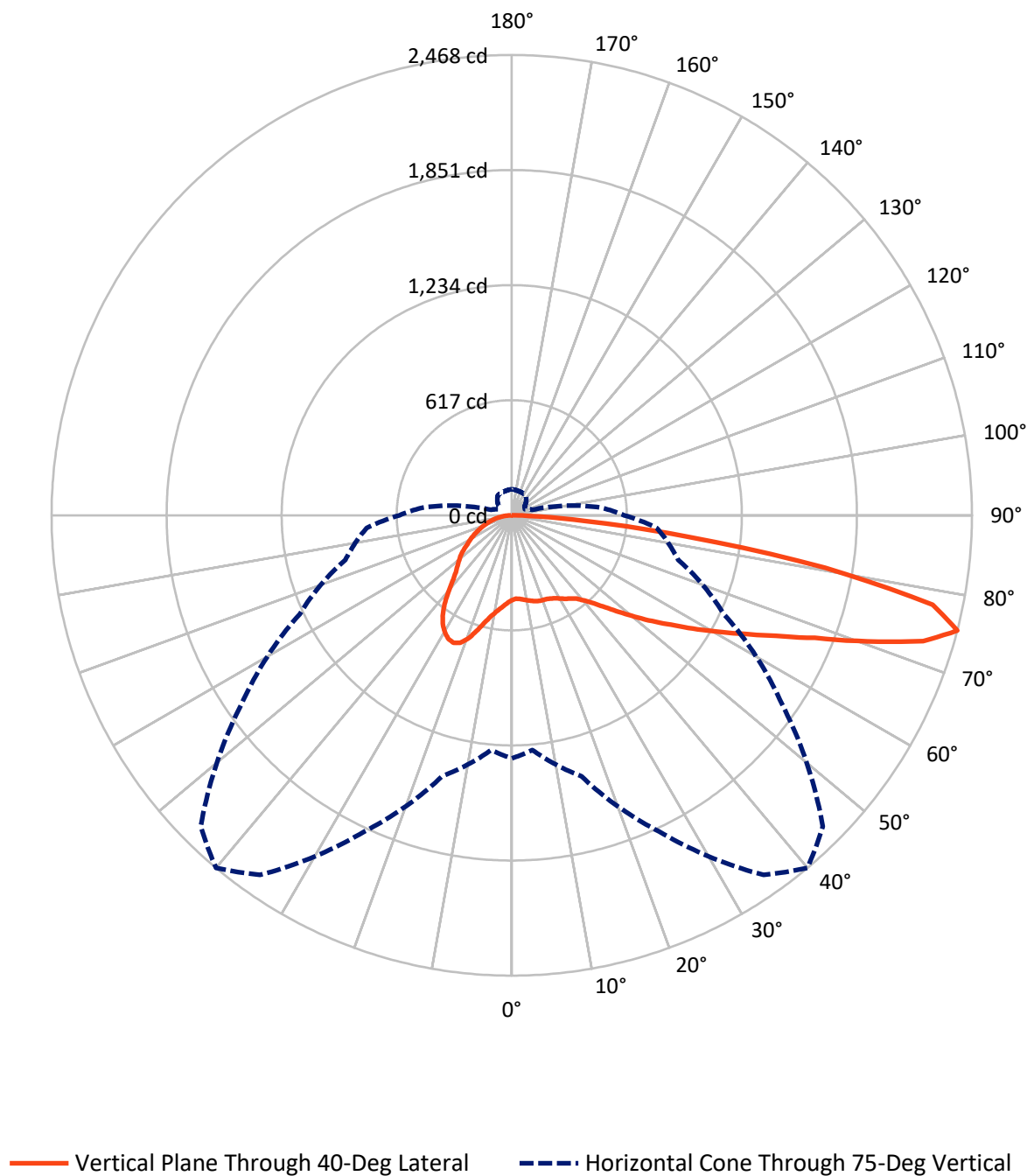


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1228.4	0.0	1228.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	2736.3	0.0	2736.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	3964.7	0.0	3964.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	1.1
10°-20°	151.9	3.8
20°-30°	277.4	7.0
30°-40°	393.5	9.9
40°-50°	531.3	13.4
50°-60°	714.8	18.0
60°-70°	907.2	22.9
70°-80°	823.3	20.8
80°-90°	120.0	3.0
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°	3964.7	100.0
0°-180°	3964.7	100.0

Coefficient of Utilization



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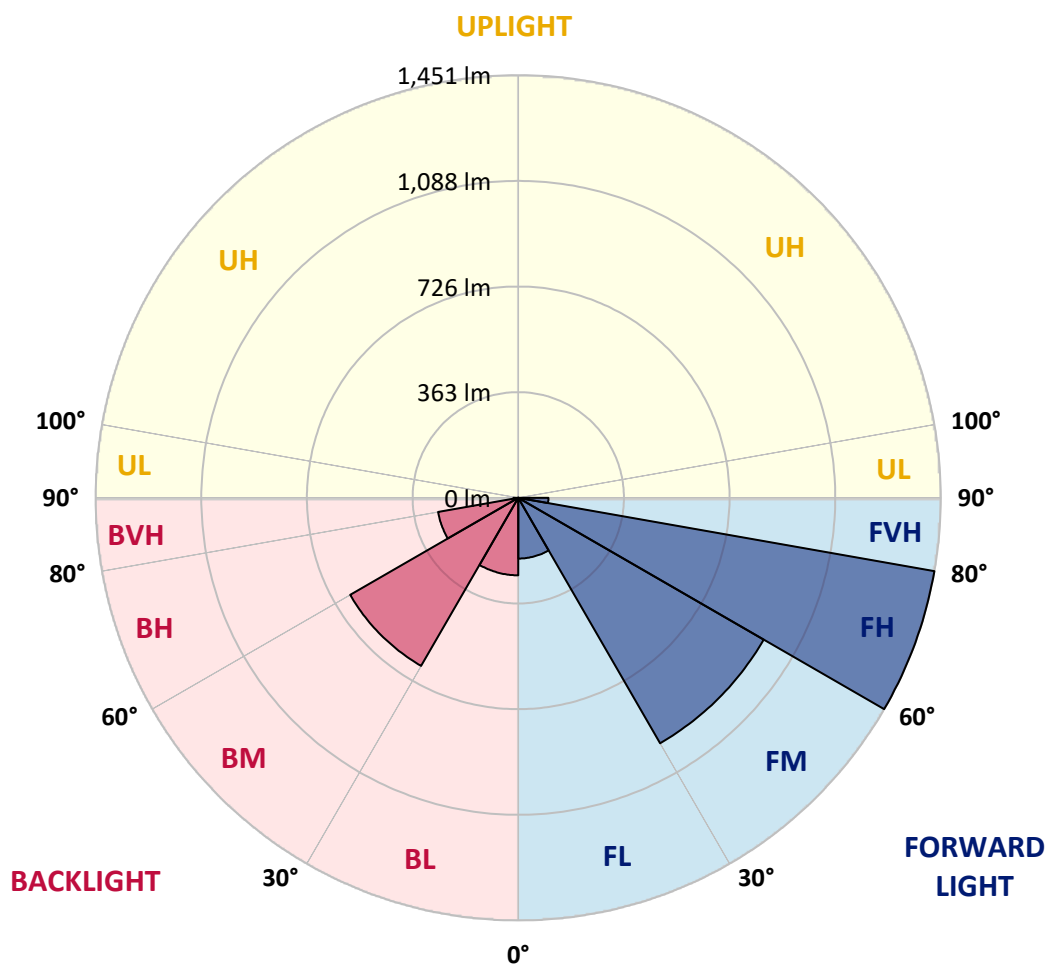
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	208.5	5.3			
FM	(30°-60°)	973.2	24.5			
FH	(60°-80°)	1451.0	36.6			G1/1800
FVH	(80°-90°)	103.5	2.6			G2/225
BL	(0°-30°)	266.1	6.7	B1/500		
BM	(30°-60°)	666.3	16.8	B1/1000		
BH	(60°-80°)	279.5	7.0	B1/500		G1/500
BVH	(80°-90°)	16.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4
2.5°	446.4	449.0	448.3	447.5	447.5	447.7	447.5	449.0	450.4	451.9	454.2
5°	451.1	453.6	452.3	451.3	450.4	450.2	449.6	449.4	450.2	452.1	455.3
7.5°	460.1	462.6	460.7	458.8	457.2	456.3	455.5	454.2	453.6	454.6	459.1
10°	470.2	472.7	470.4	467.0	464.3	463.3	462.4	461.1	460.3	460.9	465.8
12.5°	480.3	482.8	479.7	475.0	471.5	470.8	469.8	469.3	469.1	468.9	473.8
15°	489.7	491.9	487.9	482.4	478.6	477.5	476.5	477.1	478.2	479.4	484.9
17.5°	497.1	499.2	493.3	486.2	482.6	482.2	481.5	483.7	486.6	489.7	496.5
20°	503.8	505.9	498.4	488.7	484.5	484.5	484.7	489.1	493.3	497.9	507.2
22.5°	513.3	515.0	505.7	492.5	486.4	486.8	488.5	492.9	498.2	504.5	517.3
25°	527.4	528.7	517.3	499.6	492.7	493.9	495.4	497.5	502.6	509.9	527.2
27.5°	550.1	551.1	536.2	512.3	501.7	503.8	505.9	504.5	506.8	513.1	535.2
30°	582.1	582.7	563.8	532.0	517.1	518.1	518.5	512.5	508.1	513.1	540.9
32.5°	619.9	619.7	597.2	556.0	534.5	533.5	529.9	517.9	507.6	512.0	545.9
35°	678.6	676.3	647.3	589.7	554.3	547.8	539.4	524.0	509.7	511.0	550.3
37.5°	775.7	768.5	728.5	644.7	583.7	567.1	554.7	533.9	514.3	510.6	555.6
40°	885.3	876.3	832.1	720.3	627.9	601.2	581.2	548.0	521.9	512.5	563.3
42.5°	1015.3	1002.4	954.9	809.1	683.9	645.1	615.1	565.9	533.1	518.5	573.9
45°	1174.9	1157.8	1090.5	909.5	754.3	702.7	662.6	593.0	550.1	530.3	589.7
47.5°	1336.1	1340.3	1244.7	1024.3	838.9	773.9	722.1	633.8	574.9	549.3	615.1
50°	1507.5	1510.4	1398.0	1151.5	934.7	854.1	788.9	679.5	609.4	576.2	653.1
52.5°	1641.2	1641.6	1537.2	1284.6	1034.6	942.5	861.1	731.5	649.3	611.9	703.8
55°	1725.0	1723.8	1634.8	1410.6	1149.4	1035.2	941.1	790.9	698.1	653.9	767.5
57.5°	1785.8	1782.6	1702.0	1518.8	1271.8	1144.8	1031.5	858.1	755.7	704.1	851.5
60°	1808.8	1807.0	1747.6	1612.4	1400.5	1265.9	1135.7	933.5	821.1	763.1	959.3
62.5°	1817.6	1821.2	1792.4	1703.0	1538.2	1400.0	1250.3	1023.5	894.7	829.9	1073.1
65°	1848.8	1855.4	1849.4	1821.6	1693.8	1557.2	1402.4	1130.5	975.1	901.7	1191.9
67.5°	1910.4	1917.0	1919.4	1963.6	1884.0	1753.0	1592.0	1263.8	1069.1	976.1	1281.2
70°	1909.0	1907.0	1951.6	2076.5	2122.0	2024.0	1847.8	1427.8	1181.1	1037.9	1292.6
72.5°	1737.6	1722.4	1827.8	2075.3	2320.1	2307.0	2160.0	1639.4	1277.9	1045.5	1121.7
75°	1303.5	1263.2	1449.2	1870.2	2353.1	2467.7	2358.5	1770.6	1255.0	923.7	780.5
77.5°	557.5	516.9	736.2	1384.5	2106.0	2306.8	2176.4	1544.8	1001.8	610.9	383.3
80°	146.0	145.8	222.5	627.7	1432.2	1703.4	1494.4	997.5	572.4	218.2	105.8
82.5°	60.4	58.8	81.8	244.2	699.9	955.9	780.1	445.0	206.7	59.0	35.2
85°	22.5	22.2	39.8	84.4	246.9	394.3	285.4	113.8	51.6	28.8	15.8
87.5°	6.4	6.0	8.6	29.2	60.2	91.2	48.8	18.8	14.6	11.4	4.6
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°	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4	453.4
2.5°	454.8	455.9	457.8	459.3	461.1	463.3	466.2	468.1	470.0	471.2	470.4
5°	456.7	459.1	463.9	468.7	474.4	479.7	485.7	490.2	493.7	494.8	495.2
7.5°	460.9	464.7	472.9	481.1	490.2	498.8	507.6	515.2	521.3	523.6	523.8
10°	468.3	473.3	484.9	496.5	508.5	521.7	533.1	544.0	552.6	556.2	556.4
12.5°	477.5	483.9	499.0	515.0	531.6	549.9	564.6	578.1	588.8	593.6	593.6
15°	489.5	497.7	517.1	538.5	562.9	588.3	607.1	622.0	634.0	639.9	639.5
17.5°	502.6	513.5	537.9	570.3	605.2	638.7	660.5	671.5	683.9	689.5	689.3
20°	515.2	528.7	563.5	610.7	657.1	692.7	710.3	713.3	714.1	714.7	716.5
22.5°	528.2	546.3	595.7	661.5	711.3	735.9	738.5	725.9	708.3	700.1	702.3
25°	542.5	566.5	637.8	717.7	758.1	761.1	741.7	710.9	677.5	662.2	664.5
27.5°	556.4	589.9	688.3	771.3	791.7	765.9	724.2	680.7	640.3	624.1	626.0
30°	570.3	616.5	743.9	818.3	807.1	753.9	696.7	648.1	607.5	590.5	592.3
32.5°	584.4	647.7	808.1	852.1	804.3	728.5	662.4	611.5	575.7	557.9	560.2
35°	600.3	685.9	868.9	870.5	786.1	691.0	617.2	567.7	536.7	522.3	525.5
37.5°	621.2	734.5	922.5	875.1	754.1	636.1	561.0	516.0	490.4	483.9	488.5
40°	647.1	792.9	963.5	867.9	706.7	569.5	499.6	463.7	449.2	450.6	455.7
42.5°	680.7	858.3	992.3	848.9	640.9	500.7	445.8	429.8	436.8	442.6	448.1
45°	724.5	926.3	1010.2	816.7	566.5	442.4	414.0	417.8	423.1	423.7	427.9
47.5°	780.3	995.1	1021.9	768.1	490.6	401.4	393.9	394.7	393.6	389.2	392.6
50°	850.1	1061.9	1032.5	703.8	426.0	375.8	365.7	362.7	348.2	333.9	335.8
52.5°	929.7	1123.3	1036.9	623.9	375.8	354.3	337.9	319.4	292.3	287.9	289.4
55°	1017.9	1180.1	1025.5	525.7	333.5	326.8	302.0	279.7	276.8	273.0	273.6
57.5°	1123.5	1241.3	1002.4	416.2	290.2	294.6	270.4	273.0	267.7	261.8	260.8
60°	1239.0	1304.6	961.9	316.3	245.4	254.4	262.2	262.0	260.6	255.7	254.0
62.5°	1342.9	1346.2	881.9	242.2	206.1	223.3	244.6	244.4	243.1	240.4	239.3
65°	1404.7	1339.9	748.6	190.8	173.7	197.6	220.6	222.2	222.5	222.2	222.2
67.5°	1393.8	1266.1	565.7	151.8	147.0	171.6	196.8	199.2	200.8	201.2	201.6
70°	1270.1	1104.0	368.8	121.2	123.2	148.6	174.4	176.6	178.1	179.8	180.6
72.5°	990.0	811.7	211.2	98.0	102.4	128.9	152.0	154.8	155.6	158.8	160.0
75°	603.3	477.3	114.0	77.2	84.2	110.2	130.0	133.1	134.6	138.4	138.8
77.5°	286.8	206.7	65.0	60.2	67.8	90.0	109.8	113.4	109.4	111.4	109.8
80°	97.0	76.8	41.0	45.8	51.8	70.2	87.9	91.4	83.0	82.6	81.8
82.5°	33.8	31.2	26.0	30.4	33.4	50.2	66.4	71.0	61.8	61.6	58.6
85°	13.2	12.6	14.6	16.6	20.0	31.0	43.8	46.0	38.0	30.7	30.2
87.5°	2.8	3.0	3.6	3.8	6.0	10.8	15.8	19.4	15.4	13.0	12.0
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)