

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: P959860

Luminaire Tested: **NAV-SB1B-740-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-740-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

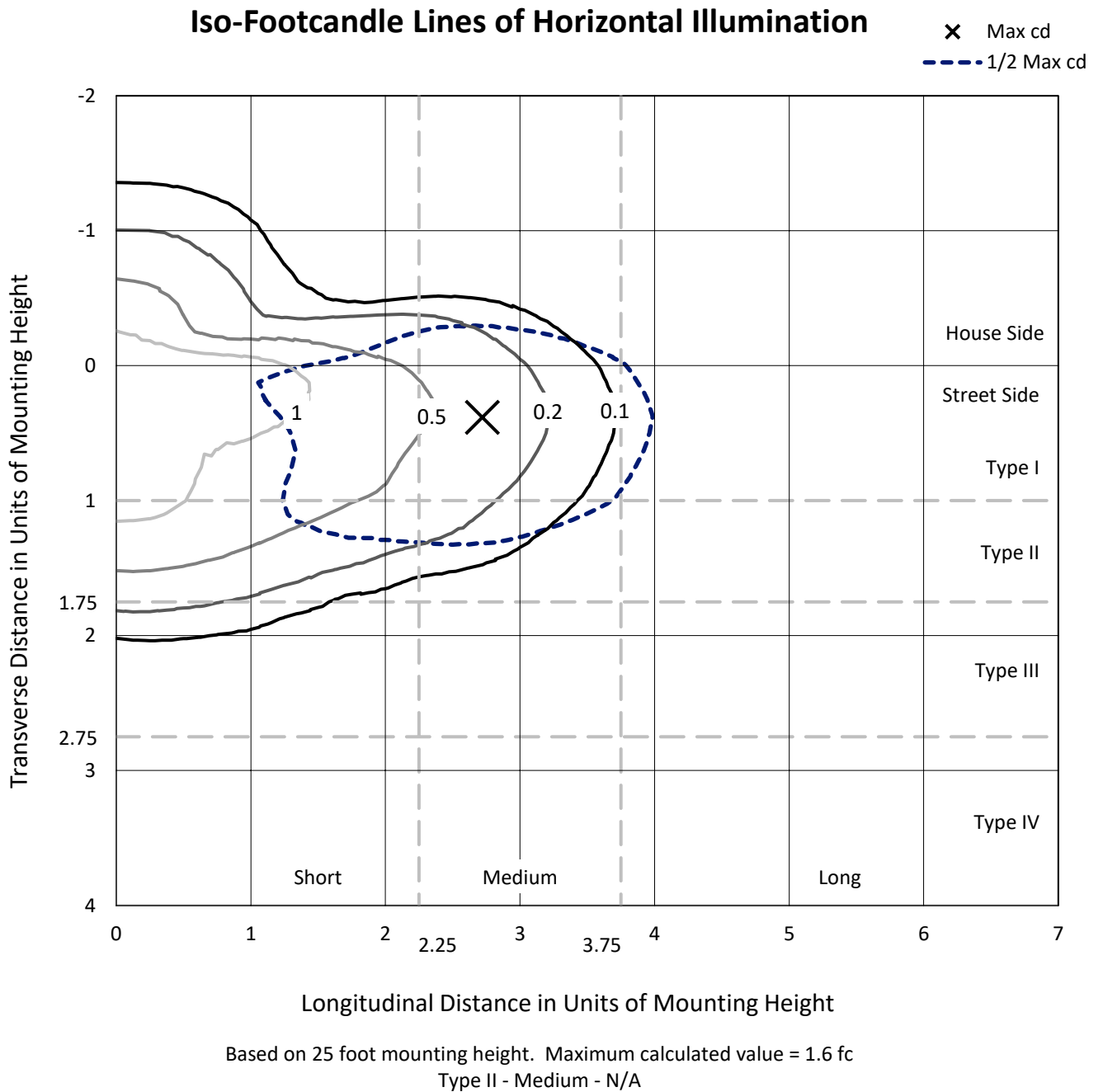
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6052.6 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - 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

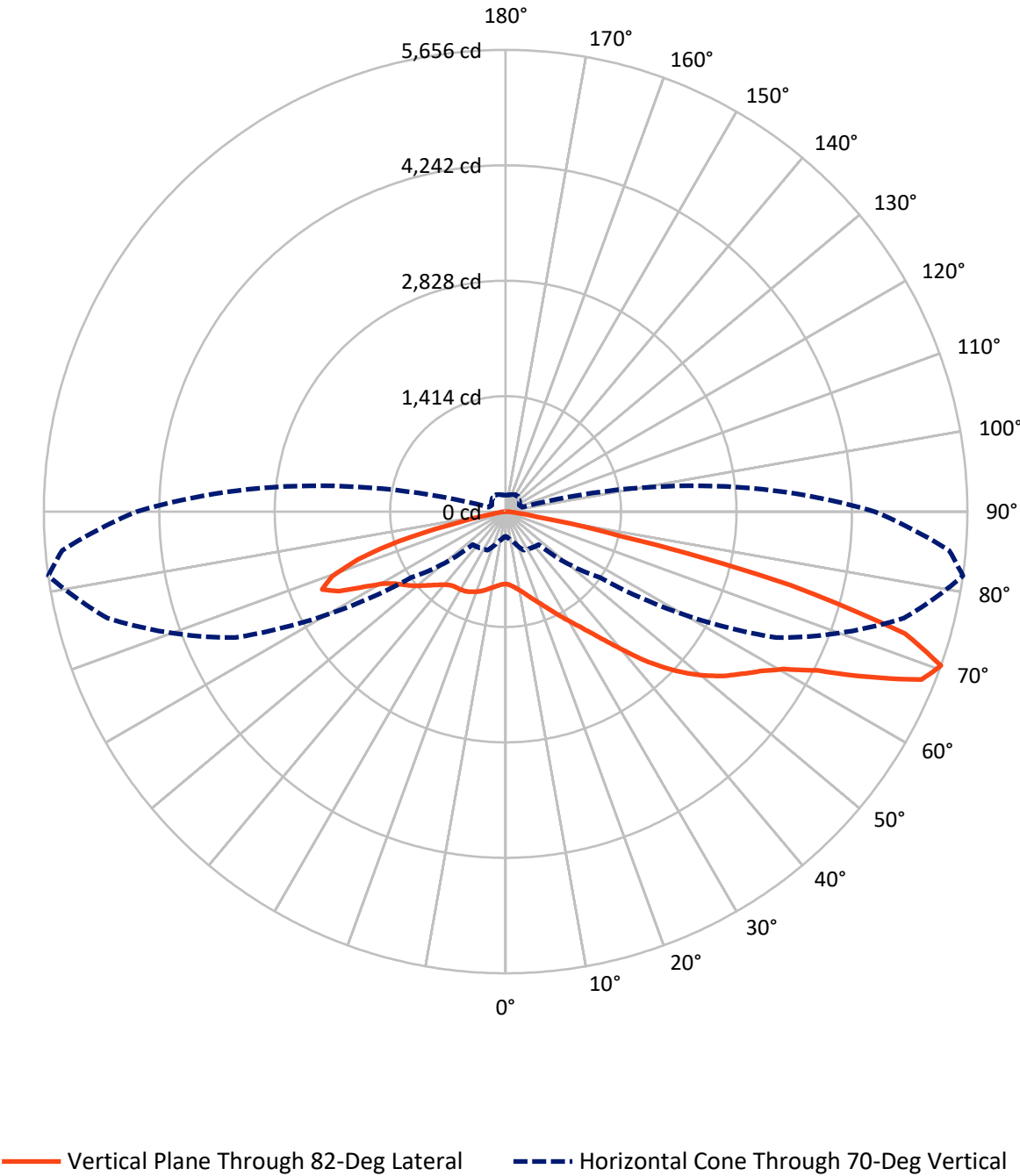


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1492.1	0.0	1492.1
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	4560.5	0.0	4560.5
	% Fixture	75.3	0.0	75.3
Total	Lumens	6052.6	0.0	6052.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	1.4
10°-20°	240.7	4.0
20°-30°	402.7	6.7
30°-40°	629.1	10.4
40°-50°	1002.0	16.6
50°-60°	1394.3	23.0
60°-70°	1458.5	24.1
70°-80°	762.3	12.6
80°-90°	79.2	1.3
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°	6052.6	100.0
0°-180°	6052.6	100.0

Coefficient of Utilization



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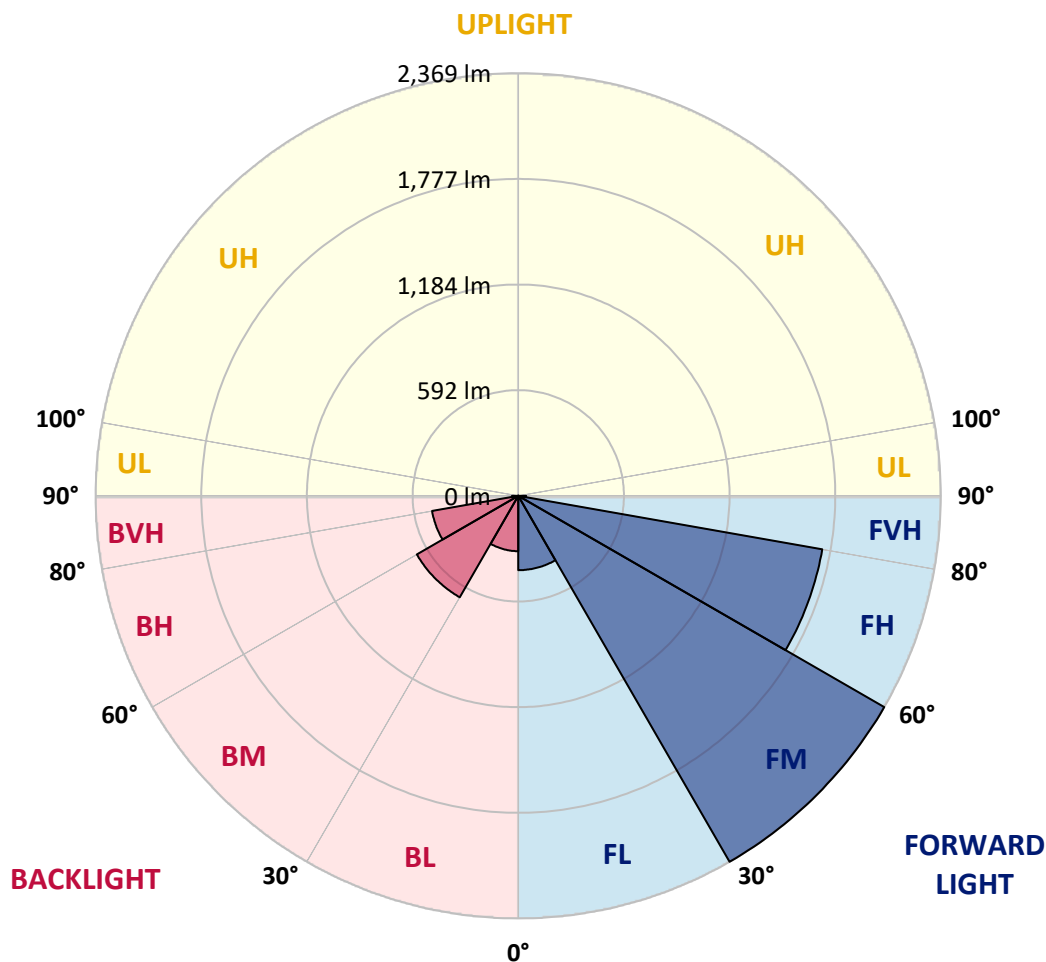
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	416.8	6.9			
FM	(30°-60°)	2368.9	39.1			
FH	(60°-80°)	1730.5	28.6			G1/1800
FVH	(80°-90°)	44.3	0.7			G1/100
BL	(0°-30°)	310.4	5.1	B1/500		
BM	(30°-60°)	656.5	10.8	B1/1000		
BH	(60°-80°)	490.4	8.1	B1/500		G1/500
BVH	(80°-90°)	34.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3
2.5°	908.6	913.7	912.1	910.5	910.5	908.3	907.9	904.8	902.2	898.0	897.0
5°	920.1	925.6	925.0	926.3	930.4	931.4	932.3	930.4	925.3	920.1	917.9
7.5°	909.9	915.9	917.9	925.6	938.5	950.0	958.7	962.3	957.5	950.0	946.5
10°	875.1	881.9	888.7	907.0	929.8	957.0	980.2	994.0	993.0	985.9	979.9
12.5°	804.8	811.9	826.4	862.0	903.7	951.9	995.0	1023.9	1033.8	1028.7	1018.1
15°	748.7	754.7	765.7	802.3	856.6	929.8	1000.4	1056.7	1082.0	1079.1	1066.3
17.5°	747.0	749.6	756.3	773.7	815.5	895.1	994.7	1088.8	1137.2	1136.9	1120.8
20°	775.3	776.2	780.1	783.6	807.4	868.8	979.9	1115.4	1199.2	1199.2	1181.9
22.5°	814.5	813.8	817.7	814.5	826.0	866.5	970.6	1138.9	1268.3	1273.5	1251.6
25°	873.3	870.0	869.1	861.7	864.0	887.3	980.8	1165.5	1350.2	1360.8	1333.5
27.5°	951.6	946.5	943.0	925.9	920.1	930.4	1012.3	1197.6	1441.5	1459.7	1425.1
30°	1053.8	1044.5	1039.4	1009.7	988.9	990.5	1059.8	1240.4	1536.8	1566.3	1522.3
32.5°	1193.1	1178.6	1164.9	1116.4	1078.2	1065.6	1121.2	1299.5	1640.2	1687.5	1630.9
35°	1349.2	1337.6	1322.9	1248.0	1189.3	1160.4	1204.1	1382.0	1761.3	1836.1	1762.6
37.5°	1499.6	1489.6	1496.6	1395.8	1320.0	1278.0	1312.6	1492.8	1910.6	2021.1	1927.6
40°	1655.0	1647.3	1648.2	1551.8	1463.6	1416.3	1444.3	1631.9	2081.8	2241.2	2126.2
42.5°	1823.9	1818.1	1798.9	1713.4	1614.2	1570.2	1595.9	1792.4	2265.6	2491.7	2343.9
45°	2013.1	2009.5	1991.6	1893.6	1779.9	1730.5	1765.2	1969.7	2450.2	2727.3	2562.6
47.5°	2176.6	2179.5	2177.2	2094.7	1976.8	1904.2	1945.7	2154.8	2622.1	2948.9	2772.3
50°	2255.2	2270.4	2292.5	2266.8	2193.6	2119.7	2127.7	2333.3	2785.8	3156.8	2973.4
52.5°	2214.1	2242.7	2303.1	2344.2	2372.5	2357.1	2335.6	2510.5	2940.0	3344.4	3163.6
55°	2061.0	2101.0	2201.3	2300.5	2444.7	2556.9	2585.0	2707.1	3090.3	3509.4	3343.3
57.5°	1781.9	1847.0	1936.9	2137.7	2380.5	2653.5	2876.0	2979.8	3249.6	3685.7	3531.5
60°	1303.3	1390.6	1502.4	1801.1	2155.7	2601.8	3123.7	3398.6	3476.0	3914.1	3776.6
62.5°	834.0	888.1	990.8	1272.1	1679.7	2336.8	3199.5	3922.2	3859.8	4288.6	4144.1
65°	571.0	605.8	699.9	857.8	1085.9	1739.4	2996.5	4314.6	4469.4	4882.1	4772.3
67.5°	414.9	441.3	521.6	660.0	707.6	1029.3	2325.3	4296.6	5062.0	5493.6	5322.7
70°	302.6	321.1	388.6	521.6	544.4	572.7	1408.7	3652.4	5049.2	5656.2	5451.6
72.5°	224.2	237.0	282.3	404.7	440.6	386.7	697.3	2654.4	4338.7	5115.9	4951.8
75°	162.2	171.8	205.2	309.7	352.6	294.5	347.8	1551.2	3026.4	3598.7	3627.6
77.5°	123.9	131.4	153.2	226.7	282.3	221.0	215.9	713.6	1435.0	1442.1	1522.9
80°	99.5	104.3	116.2	159.6	216.5	165.4	140.6	288.1	453.5	383.8	402.7
82.5°	73.2	81.3	98.3	112.1	154.8	114.0	85.8	145.4	172.5	148.4	149.6
85°	41.7	47.3	59.4	80.3	98.9	69.7	49.1	64.6	80.3	65.8	58.7
87.5°	14.8	19.3	20.9	31.5	43.0	28.9	19.0	18.7	26.3	19.6	16.4
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°	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3	887.3
2.5°	893.8	892.2	885.8	877.1	868.1	859.5	856.6	850.4	846.2	844.0	846.6
5°	911.8	906.6	891.5	872.3	852.1	830.2	814.8	800.6	790.4	780.7	784.6
7.5°	937.5	928.5	902.5	868.8	832.8	796.5	769.6	749.0	735.1	726.2	728.1
10°	967.4	953.6	913.7	863.3	807.7	755.7	724.0	706.2	697.6	692.8	694.0
12.5°	1001.7	982.2	925.3	850.7	769.6	710.1	688.3	683.2	683.5	683.8	684.4
15°	1044.2	1016.8	934.6	823.5	719.8	675.1	671.3	679.6	688.3	692.5	692.1
17.5°	1091.9	1053.4	936.2	778.5	671.0	652.6	664.8	682.9	696.0	701.7	703.0
20°	1143.4	1090.7	924.7	714.9	630.8	634.3	656.1	679.3	693.7	701.1	703.0
22.5°	1202.1	1130.5	897.0	648.1	598.0	614.4	640.1	662.6	677.6	685.0	687.0
25°	1269.3	1175.2	853.6	591.9	569.8	591.9	617.6	636.2	648.4	655.2	657.1
27.5°	1343.8	1221.7	795.8	547.2	545.0	568.8	590.0	604.4	610.9	616.0	618.0
30°	1418.6	1264.1	725.8	513.5	523.5	546.0	561.1	567.5	569.4	570.4	572.7
32.5°	1499.6	1300.7	652.3	485.6	503.0	523.9	532.8	535.7	526.7	520.6	522.5
35°	1597.5	1339.9	580.4	463.4	482.7	500.7	503.6	501.0	490.5	477.9	478.6
37.5°	1718.6	1388.8	522.9	447.7	463.8	475.7	472.1	471.5	472.4	457.7	458.6
40°	1866.9	1452.3	480.8	435.5	448.3	450.9	441.0	446.4	451.2	428.8	429.4
42.5°	2031.8	1529.1	454.2	427.1	435.5	429.4	414.0	420.0	419.4	389.9	389.6
45°	2199.6	1612.6	444.8	421.1	423.6	411.4	394.4	396.0	382.5	355.9	356.8
47.5°	2366.7	1702.2	450.6	415.9	408.9	395.0	381.9	374.8	354.9	335.0	335.0
50°	2530.5	1796.3	471.8	405.6	388.6	380.6	370.9	358.4	337.2	320.2	318.9
52.5°	2682.4	1891.0	495.6	388.6	363.3	368.1	361.9	347.5	326.7	309.2	309.7
55°	2826.3	1985.8	504.9	365.2	339.5	357.1	353.6	327.0	301.9	287.7	286.5
57.5°	2983.1	2099.8	494.6	335.3	320.2	344.6	331.1	301.6	287.1	276.5	275.5
60°	3200.2	2278.7	472.4	298.4	301.9	326.0	302.9	290.7	274.9	263.0	262.4
62.5°	3560.8	2612.4	436.8	261.8	280.3	298.4	289.4	277.2	261.1	249.6	249.6
65°	4094.0	3076.1	369.6	233.2	256.2	271.4	274.9	262.7	246.0	233.8	234.4
67.5°	4543.6	3367.1	279.7	209.4	231.5	249.6	259.5	247.6	229.9	218.1	218.4
70°	4518.8	3155.8	213.6	185.9	209.7	228.1	240.9	231.5	212.6	201.4	202.3
72.5°	4013.7	2640.0	172.8	162.2	187.6	205.5	221.0	213.9	194.6	183.7	183.7
75°	2948.6	1874.0	138.1	138.1	159.9	182.1	199.2	194.6	176.9	169.2	167.0
77.5°	1242.9	786.2	108.2	114.7	132.9	156.4	177.6	179.2	163.8	173.4	157.3
80°	330.5	216.8	82.5	90.2	104.3	129.1	154.5	153.9	137.1	128.1	119.1
82.5°	125.9	85.4	58.7	63.6	75.4	98.9	122.4	126.2	109.5	94.7	94.7
85°	48.5	36.6	36.3	38.2	44.0	65.5	92.5	95.7	82.5	70.0	72.3
87.5°	12.5	11.0	13.5	12.8	20.2	35.1	53.0	54.9	50.4	29.2	41.7
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)