

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: P881881

Luminaire Tested: **NAV-SB1C-727-U-T4FT**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6714 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

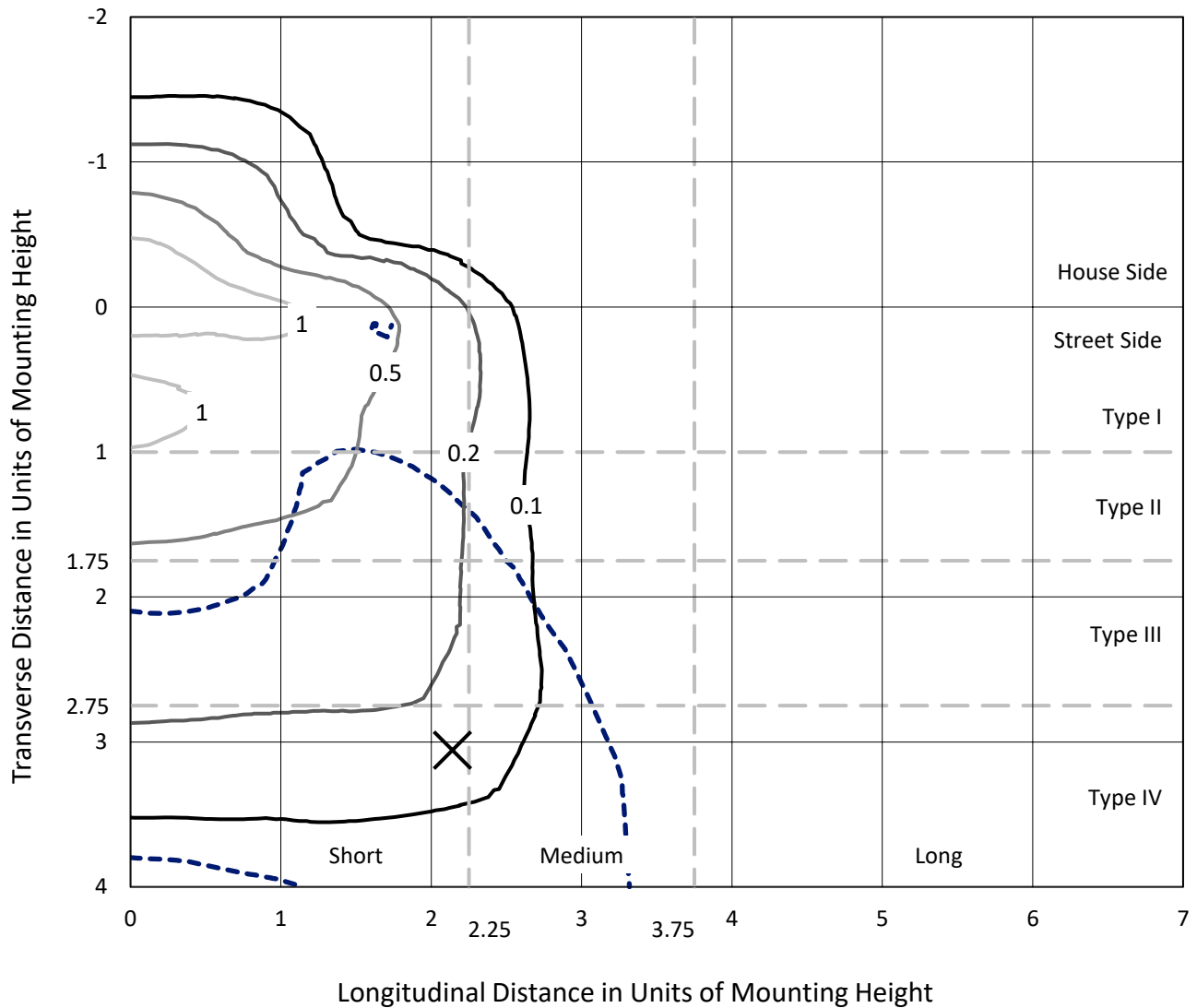
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

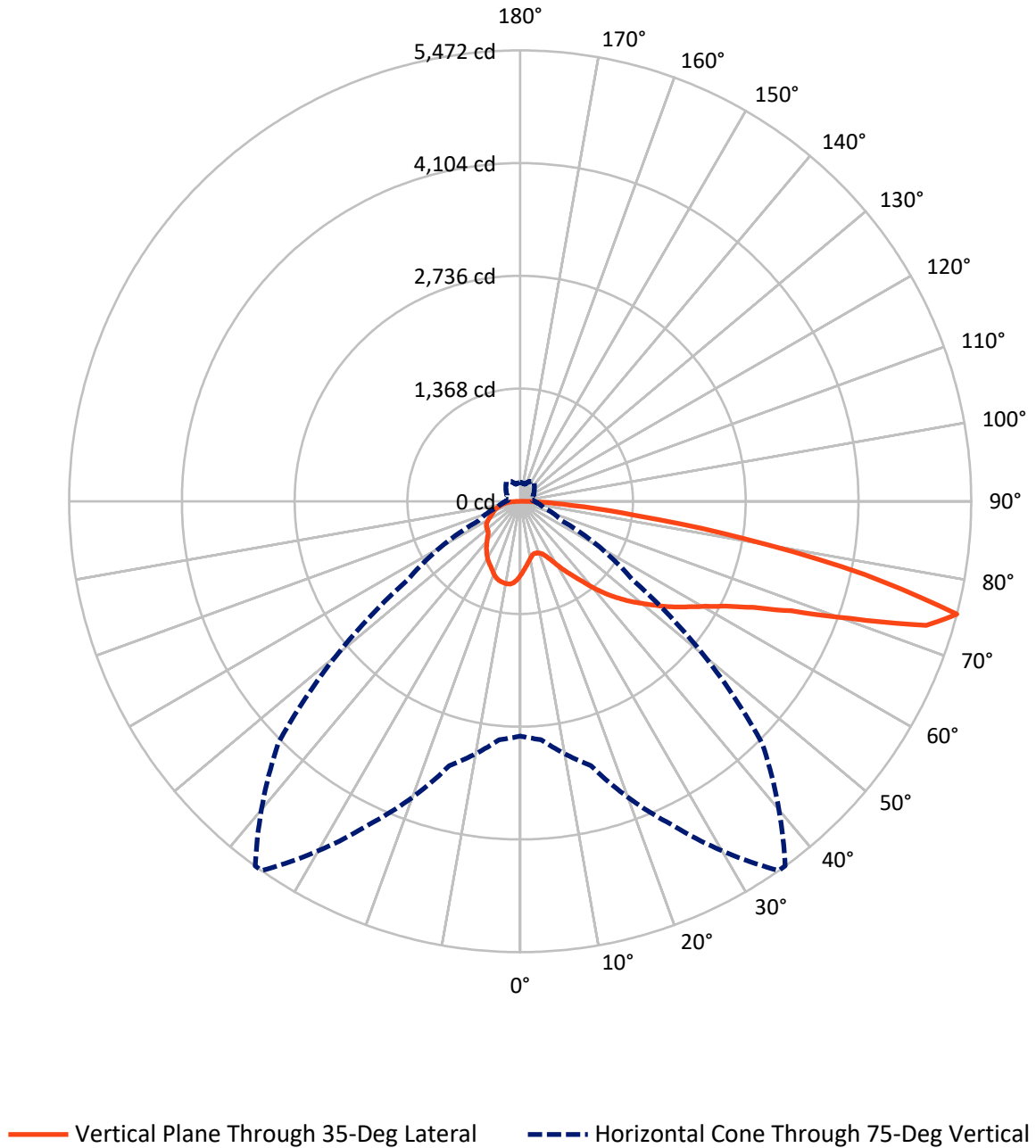
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1597.8	0.0	1597.8
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	5116.2	0.0	5116.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	6714.0	0.0	6714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	1.3
10°-20°	244.3	3.6
20°-30°	410.3	6.1
30°-40°	637.7	9.5
40°-50°	946.5	14.1
50°-60°	1306.7	19.5
60°-70°	1585.3	23.6
70°-80°	1310.1	19.5
80°-90°	188.4	2.8
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°	6714.0	100.0
0°-180°	6714.0	100.0

Coefficient of Utilization



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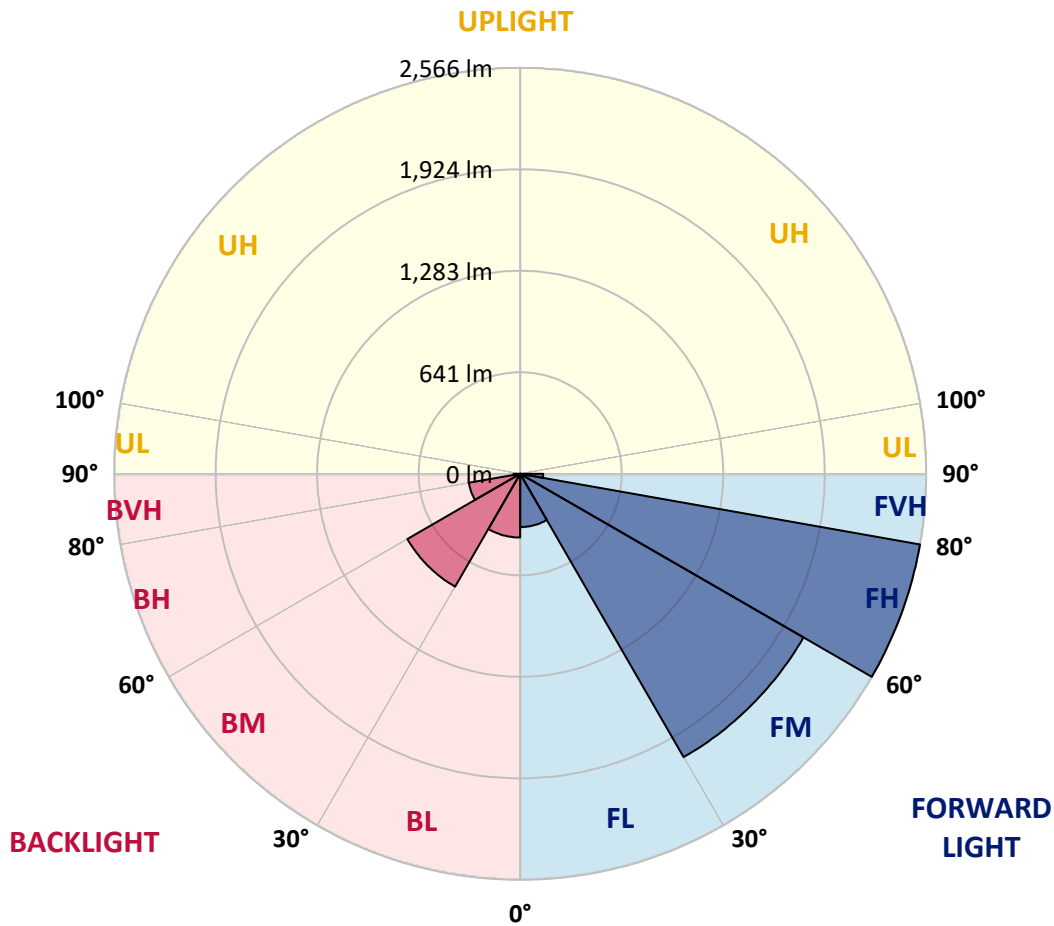
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	336.7	5.0			
FM (30°-60°)	2067.6	30.8			
FH (60°-80°)	2566.0	38.2			G2/5000
FVH (80°-90°)	146.0	2.2			G2/225
BL (0°-30°)	402.7	6.0	B1/500		
BM (30°-60°)	823.3	12.3	B1/1000		
BH (60°-80°)	329.4	4.9	B1/500		G1/500
BVH (80°-90°)	42.4	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	825.0	830.1	832.3	831.2	836.6	835.9	843.5	852.9	866.0	878.7	897.2
5°	761.5	766.9	771.6	776.0	786.5	789.8	801.8	819.9	843.9	868.2	898.7
7.5°	702.3	707.0	714.3	722.3	740.1	743.3	763.3	791.6	825.0	860.6	902.7
10°	654.0	658.8	666.4	675.5	697.6	701.6	727.0	764.7	808.3	853.3	907.0
12.5°	633.4	634.8	639.2	648.2	667.5	670.0	698.0	741.2	792.0	847.9	913.6
15°	632.3	635.2	635.5	640.3	656.2	657.3	683.1	725.9	781.8	846.8	923.4
17.5°	643.2	645.3	642.1	645.0	658.4	660.2	680.5	718.7	778.5	851.5	940.1
20°	672.2	674.0	664.2	660.2	670.0	671.5	691.4	723.4	781.8	861.3	962.9
22.5°	733.9	735.0	711.0	694.7	695.4	696.1	713.6	742.6	794.5	879.1	992.0
25°	830.1	829.4	791.2	759.7	741.5	737.5	749.1	773.8	815.9	902.7	1029.3
27.5°	942.6	937.2	899.0	851.9	812.3	806.5	803.9	814.5	846.4	933.9	1075.1
30°	1069.6	1064.5	1023.5	961.8	907.0	897.6	873.6	868.2	891.8	976.4	1138.6
32.5°	1209.0	1205.7	1156.7	1082.0	1008.7	997.8	957.5	943.0	961.5	1040.6	1227.2
35°	1325.9	1323.0	1282.3	1205.4	1115.7	1102.3	1061.3	1044.9	1054.4	1123.0	1342.9
37.5°	1431.5	1430.0	1395.2	1334.6	1242.0	1225.7	1179.6	1174.2	1172.3	1231.5	1483.4
40°	1529.5	1525.9	1489.6	1457.6	1389.0	1374.2	1333.5	1328.8	1315.0	1365.1	1642.4
42.5°	1638.0	1628.6	1576.0	1561.1	1542.6	1530.2	1505.9	1506.6	1476.1	1515.7	1810.8
45°	1726.6	1721.1	1667.1	1658.3	1678.3	1673.2	1694.3	1699.7	1640.6	1673.6	1985.7
47.5°	1821.7	1816.6	1770.9	1764.7	1818.8	1820.2	1894.6	1896.4	1801.0	1837.6	2161.0
50°	1938.9	1931.7	1886.3	1893.9	1954.5	1960.0	2096.1	2083.7	1948.7	2004.2	2334.9
52.5°	2016.2	2020.6	2010.8	2023.1	2105.9	2111.0	2294.2	2262.7	2095.0	2168.7	2505.5
55°	2073.2	2081.9	2112.4	2140.7	2265.6	2270.7	2481.2	2432.9	2216.2	2321.1	2665.9
57.5°	2146.5	2134.2	2191.2	2246.3	2417.3	2430.7	2663.0	2596.9	2323.6	2452.5	2775.9
60°	2251.8	2243.1	2287.3	2369.0	2587.1	2608.6	2855.4	2744.7	2402.4	2556.7	2797.3
62.5°	2465.2	2443.4	2450.3	2522.5	2801.3	2829.6	3072.4	2873.5	2441.6	2597.3	2682.6
65°	2784.2	2746.8	2712.0	2762.1	3102.9	3130.9	3317.4	2974.8	2427.1	2518.5	2378.1
67.5°	3186.0	3149.0	3106.2	3153.4	3547.2	3569.3	3619.8	3031.8	2312.8	2215.1	1839.8
70°	3517.4	3503.6	3554.8	3749.0	4256.7	4257.5	4007.4	2984.6	1999.5	1570.5	1064.5
72.5°	3473.5	3465.1	3734.8	4335.1	5151.1	5131.8	4374.3	2627.4	1346.9	708.5	398.9
75°	2849.6	2903.6	3321.4	4324.6	5472.3	5469.7	4149.7	1670.3	557.1	293.6	206.2
77.5°	1528.0	1613.7	2156.3	3192.9	4272.0	4336.2	2917.4	584.4	239.2	188.0	142.6
80°	498.3	573.1	859.5	1625.7	2775.9	2763.9	1250.4	229.4	163.7	133.2	98.7
82.5°	211.6	220.3	384.0	767.7	1424.6	1402.5	398.2	131.8	115.1	91.1	61.0
85°	82.8	92.6	169.5	355.0	617.0	603.6	143.7	65.3	73.7	59.5	36.3
87.5°	27.2	33.0	60.6	121.6	192.0	185.1	35.2	22.5	31.9	27.2	13.1
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°	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7	894.7
2.5°	902.3	908.1	915.0	925.2	933.9	941.1	948.8	953.5	955.3	960.7	960.4
5°	908.8	921.5	938.6	955.3	971.6	981.4	990.1	994.5	998.5	1001.4	1002.1
7.5°	919.7	936.1	962.9	984.7	998.5	1006.5	1012.3	1010.8	1012.3	1013.0	1014.1
10°	929.2	952.0	984.0	1004.7	1015.2	1015.6	1014.1	1009.0	1006.5	1006.8	1007.6
12.5°	940.4	965.8	1000.3	1017.7	1020.6	1012.6	1006.5	997.8	994.5	993.0	992.3
15°	955.7	984.7	1018.1	1024.6	1017.4	1007.2	996.7	982.5	975.3	969.5	971.3
17.5°	974.2	1006.1	1031.9	1027.2	1011.6	994.9	977.8	956.4	941.5	935.3	935.7
20°	999.9	1028.6	1042.4	1021.7	998.1	972.7	943.7	917.6	903.8	897.6	896.9
22.5°	1031.2	1058.7	1052.6	1012.3	978.9	938.2	901.9	882.7	875.8	871.5	872.2
25°	1068.5	1092.1	1059.8	998.5	947.3	892.5	864.6	858.4	855.1	851.9	851.9
27.5°	1117.2	1129.9	1065.3	978.2	898.0	843.9	833.7	834.8	833.7	828.3	829.4
30°	1181.4	1178.9	1070.4	945.1	841.3	800.0	800.7	805.4	806.1	802.5	804.3
32.5°	1266.0	1240.2	1072.9	902.3	787.3	761.5	762.2	767.3	770.9	764.7	767.7
35°	1368.3	1311.7	1068.9	848.6	745.5	724.8	719.4	720.8	721.9	716.1	720.1
37.5°	1487.8	1391.9	1051.1	789.1	711.0	688.9	677.3	667.5	661.7	656.2	659.9
40°	1618.8	1479.4	1018.5	731.0	672.6	650.8	633.4	614.8	595.2	588.0	591.3
42.5°	1756.0	1569.4	978.9	675.5	628.3	610.5	592.0	565.1	535.7	520.8	522.7
45°	1898.3	1661.6	940.1	620.7	582.9	575.3	553.9	521.6	489.6	470.8	469.3
47.5°	2037.6	1748.7	883.1	565.5	540.4	548.8	532.1	502.3	466.8	437.0	433.7
50°	2170.8	1830.4	789.8	509.6	506.0	540.8	524.8	482.0	441.4	403.2	400.0
52.5°	2303.0	1896.4	670.4	458.8	487.4	538.6	515.4	468.2	418.5	378.6	374.2
55°	2415.1	1930.6	555.3	415.2	460.6	520.1	504.1	451.9	386.2	343.7	340.1
57.5°	2479.0	1903.0	459.5	372.4	423.6	489.6	484.9	417.0	347.7	315.0	310.7
60°	2451.4	1791.2	381.1	335.0	388.4	456.6	451.5	382.6	318.3	287.5	283.1
62.5°	2299.3	1578.1	319.0	302.3	356.4	422.8	418.1	356.1	295.8	266.0	261.3
65°	1993.0	1283.8	270.8	275.1	324.1	382.2	389.1	333.9	278.0	249.0	244.3
67.5°	1520.1	929.9	233.0	251.5	292.5	342.3	362.2	317.9	263.1	235.6	231.2
70°	866.4	528.1	201.1	228.7	264.6	305.2	341.5	305.2	247.2	224.3	221.4
72.5°	328.5	242.5	173.9	205.8	237.7	274.0	318.7	285.3	228.7	211.6	208.7
75°	175.3	147.7	146.3	178.9	206.9	243.5	290.0	265.7	214.9	223.6	230.8
77.5°	119.4	104.5	122.3	153.2	173.1	209.8	259.5	235.9	186.2	185.5	171.0
80°	82.8	74.0	99.4	123.4	133.9	176.4	226.5	202.5	151.7	141.6	135.4
82.5°	49.7	48.3	74.4	92.2	94.7	136.1	187.6	169.9	124.1	108.2	108.9
85°	27.2	28.7	47.5	54.1	55.2	95.1	147.0	131.4	95.5	80.2	80.9
87.5°	7.6	9.8	17.4	21.4	26.5	49.4	87.5	78.0	47.9	33.4	33.4
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)