

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: P959802

Luminaire Tested: **NAV-SB1B-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-730-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5777.9 lumens
Efficiency: N/A
Efficacy: 145.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

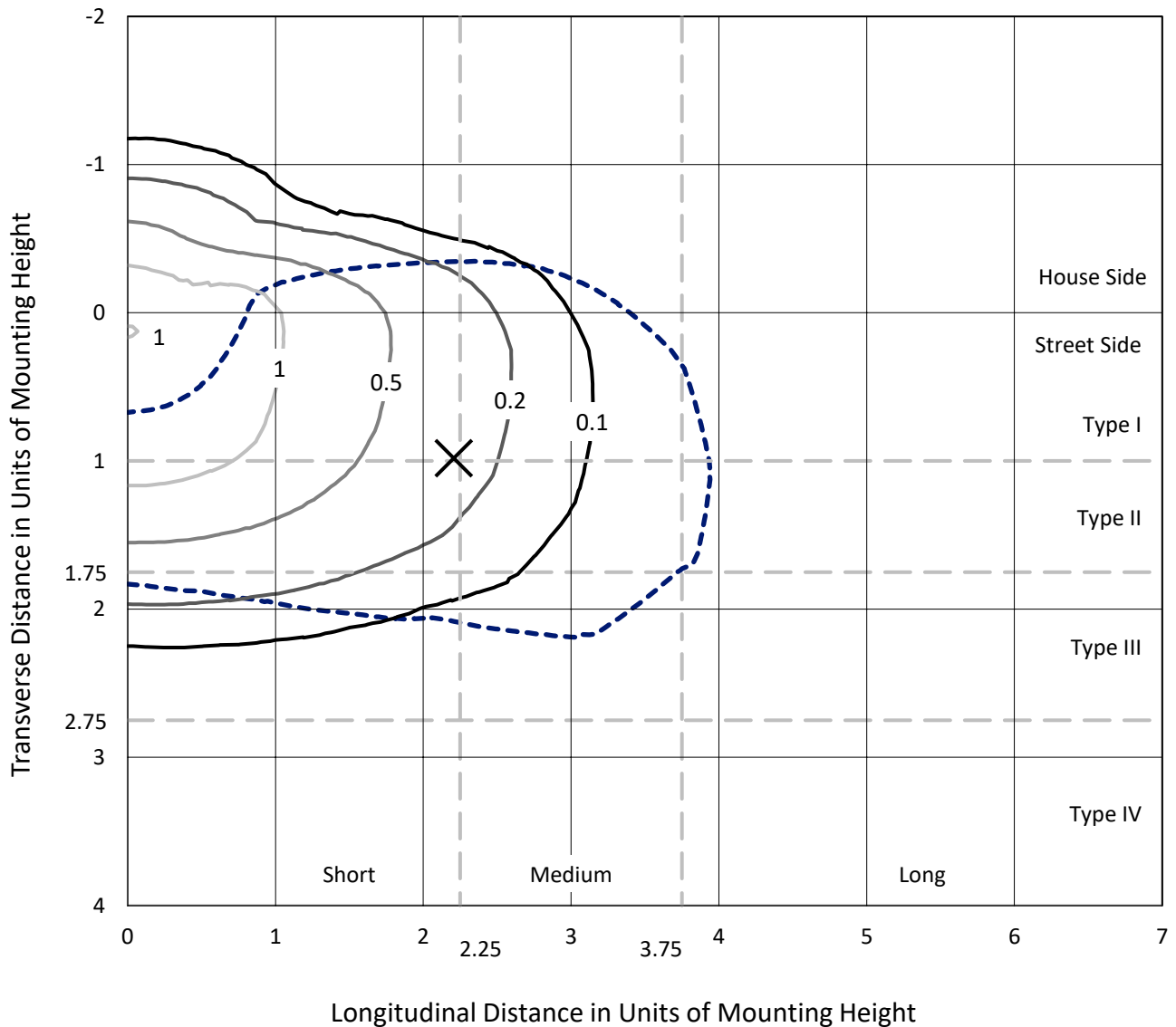
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

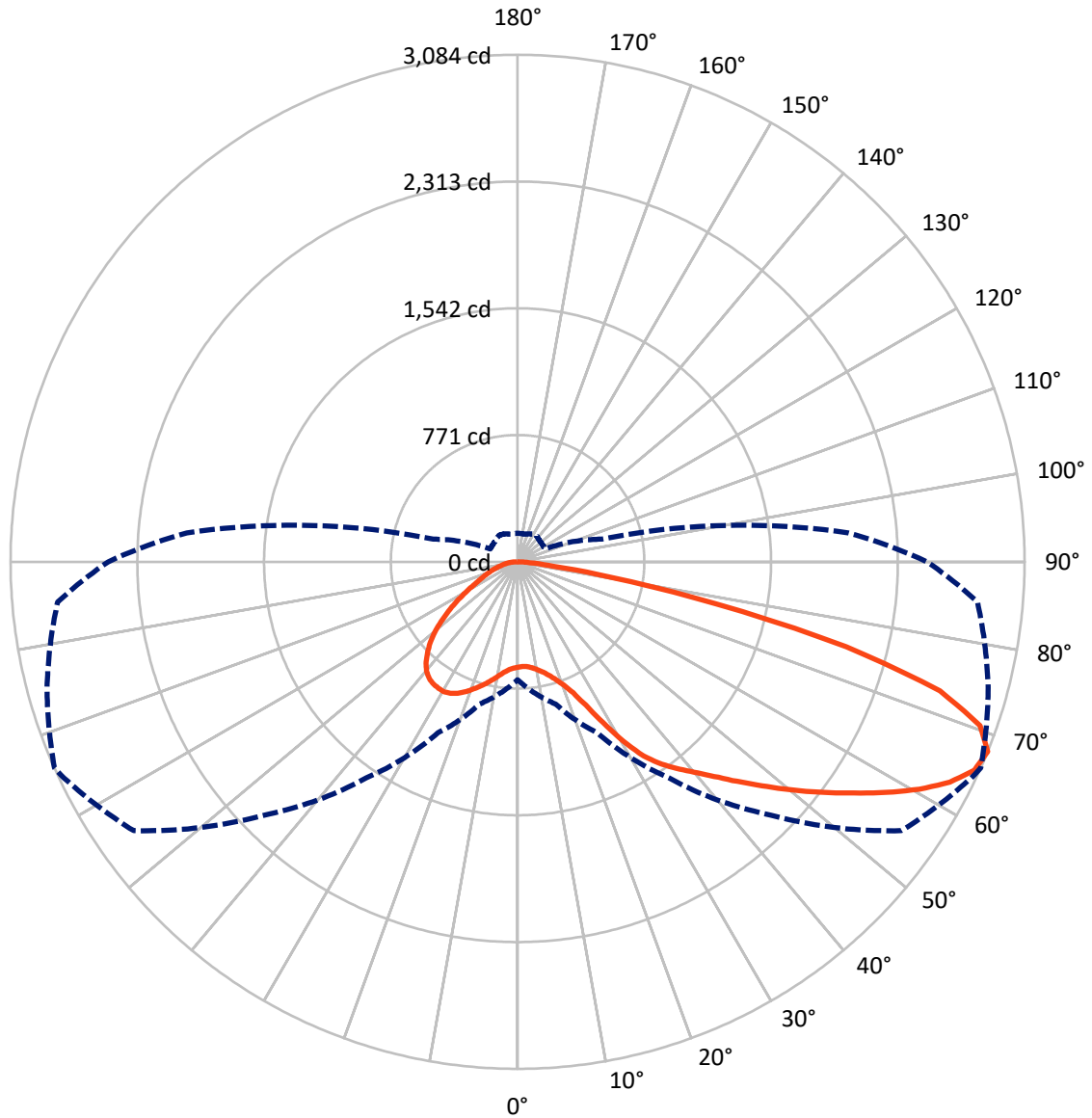
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1436.7	0.0	1436.7
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	4341.2	0.0	4341.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	5777.9	0.0	5777.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	1.1
10°-20°	209.9	3.6
20°-30°	404.6	7.0
30°-40°	709.4	12.3
40°-50°	1054.7	18.3
50°-60°	1336.9	23.1
60°-70°	1308.1	22.6
70°-80°	624.0	10.8
80°-90°	66.7	1.2
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°	5777.9	100.0
0°-180°	5777.9	100.0

Coefficient of Utilization



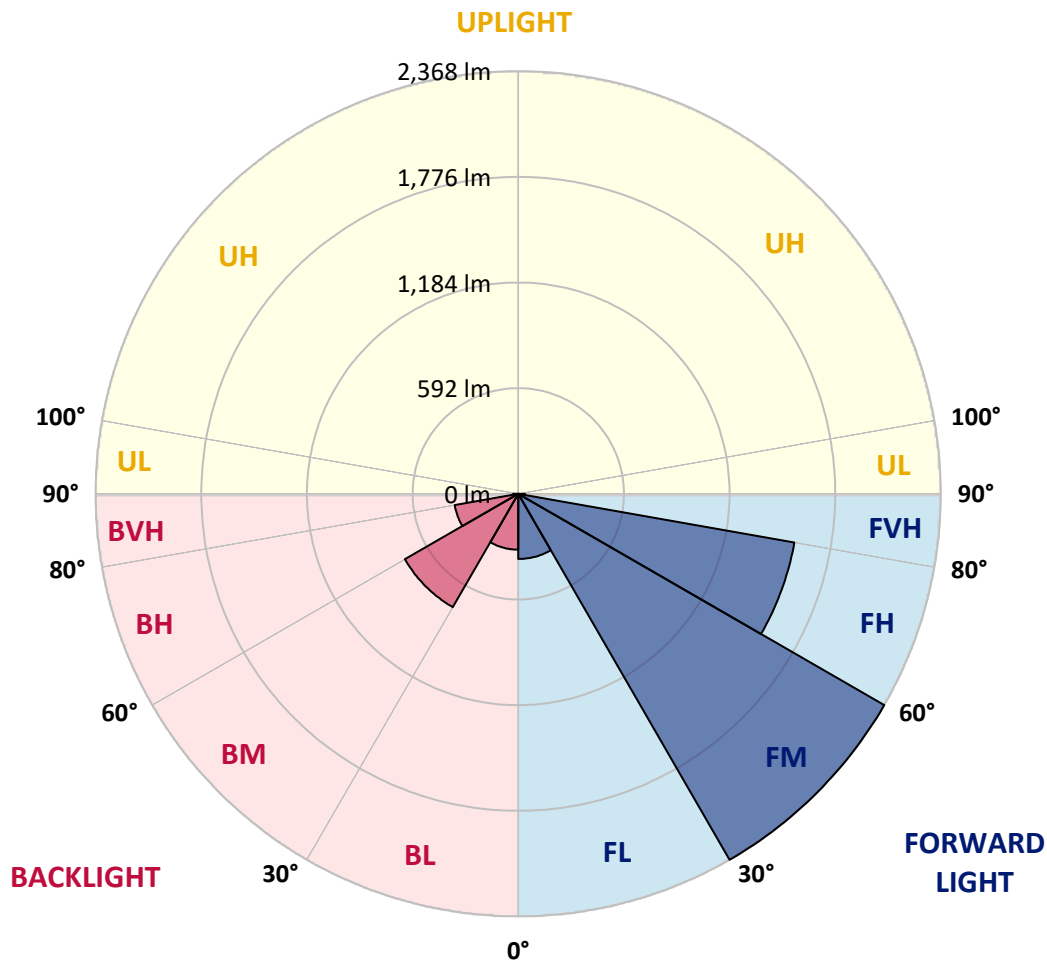
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	365.1	6.3			
FM (30°-60°)	2367.7	41.0			
FH (60°-80°)	1570.6	27.2			G1/1800
FVH (80°-90°)	37.8	0.7			G1/100
BL (0°-30°)	313.0	5.4	B1/500		
BM (30°-60°)	733.3	12.7	B1/1000		
BH (60°-80°)	361.5	6.3	B1/500		G1/500
BVH (80°-90°)	28.9	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	634.2	637.9	636.9	635.4	635.1	635.7	636.6	637.6	637.2	638.7	641.1
5°	632.3	636.0	635.7	635.7	636.9	639.3	640.8	642.4	640.8	642.7	646.1
7.5°	633.6	636.3	637.6	638.7	641.8	646.3	650.0	653.3	651.5	653.6	657.8
10°	649.0	651.2	652.4	652.4	654.5	659.7	663.3	669.4	667.9	671.2	676.7
12.5°	677.3	679.4	679.4	678.1	679.7	683.1	684.3	691.0	688.2	693.7	699.2
15°	711.9	716.2	712.8	710.6	711.2	714.6	714.3	719.4	716.8	721.3	726.1
17.5°	750.1	755.6	750.1	749.8	748.7	752.2	752.6	757.2	752.2	755.6	758.9
20°	795.4	803.0	798.4	799.9	797.1	798.7	800.2	806.9	799.3	801.8	800.8
22.5°	859.2	868.3	863.4	869.1	867.4	866.1	865.8	877.6	865.8	866.7	857.9
25°	952.0	963.0	954.5	962.4	962.4	966.3	970.9	986.0	966.3	960.5	937.8
27.5°	1089.3	1100.1	1083.4	1088.3	1086.8	1096.5	1091.6	1129.3	1108.0	1098.6	1052.8
30°	1254.4	1273.8	1242.2	1241.0	1239.5	1255.0	1262.0	1286.9	1265.3	1255.9	1200.7
32.5°	1432.8	1453.2	1415.5	1404.7	1398.9	1408.2	1402.5	1422.6	1407.6	1393.1	1324.8
35°	1621.7	1641.7	1605.9	1584.6	1561.6	1541.9	1521.2	1526.3	1512.4	1490.2	1419.5
37.5°	1800.2	1836.9	1799.0	1776.2	1733.7	1695.1	1637.4	1613.6	1600.4	1580.1	1508.8
40°	1982.0	2003.0	1974.2	1954.7	1908.5	1848.2	1755.9	1705.2	1687.6	1667.9	1607.4
42.5°	2115.9	2136.0	2120.5	2107.1	2071.0	2000.9	1881.6	1818.1	1792.6	1770.5	1719.1
45°	2222.2	2237.1	2227.3	2232.1	2216.7	2148.7	2011.8	1939.2	1912.9	1885.8	1845.4
47.5°	2264.9	2280.7	2296.2	2325.1	2351.5	2301.4	2151.8	2070.4	2042.4	2014.8	1975.1
50°	2260.1	2276.2	2321.1	2382.5	2464.4	2447.7	2299.3	2210.0	2184.3	2152.7	2115.9
52.5°	2221.3	2239.5	2297.1	2399.1	2529.7	2557.3	2449.5	2354.2	2329.9	2292.3	2255.6
55°	2119.3	2130.2	2216.7	2361.2	2545.2	2633.8	2596.8	2507.9	2483.6	2431.0	2390.9
57.5°	1930.2	1946.0	2071.9	2258.9	2506.3	2685.7	2726.1	2669.3	2645.9	2570.4	2528.5
60°	1683.4	1708.6	1852.7	2087.1	2407.3	2685.4	2843.6	2828.1	2808.7	2707.6	2663.9
62.5°	1404.0	1433.2	1571.9	1844.2	2234.3	2609.2	2917.0	2961.1	2951.1	2834.2	2778.4
65°	1078.3	1098.3	1236.5	1530.0	1965.0	2445.6	2925.6	3051.8	3053.7	2930.4	2838.1
67.5°	717.9	775.6	895.5	1148.1	1604.4	2178.1	2850.8	3066.7	3084.3	2963.5	2808.1
70°	350.3	426.2	543.7	746.2	1148.1	1768.0	2655.7	2944.7	2983.9	2866.9	2628.9
72.5°	145.4	170.0	234.0	368.3	659.1	1193.1	2263.5	2613.8	2686.3	2540.4	2210.3
75°	98.1	106.3	133.9	188.8	300.2	588.3	1632.3	1948.9	2065.8	1918.6	1568.2
77.5°	75.5	80.8	97.5	132.0	178.5	222.5	873.7	1174.5	1234.9	1143.3	816.0
80°	59.4	63.4	72.9	96.2	126.6	119.0	297.8	532.2	567.0	475.7	262.3
82.5°	51.6	53.1	52.2	65.3	84.0	69.5	97.8	196.4	216.8	157.2	85.6
85°	37.3	41.6	43.5	40.4	44.6	35.3	40.1	69.5	76.5	68.3	48.3
87.5°	15.2	22.4	27.7	26.1	16.4	10.0	12.4	20.3	23.4	25.5	15.8
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°	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8	640.8
2.5°	641.4	643.6	645.1	646.9	648.1	650.0	653.6	655.7	656.0	657.5	657.2
5°	647.2	650.3	653.6	658.5	663.9	668.5	675.5	680.3	682.1	683.7	683.4
7.5°	659.7	663.9	670.0	678.4	686.3	692.5	701.0	706.7	712.5	714.6	714.9
10°	678.1	684.3	693.1	704.6	713.1	721.0	729.8	734.6	740.5	742.8	744.0
12.5°	701.3	707.7	719.1	735.2	743.1	748.7	751.6	750.4	751.6	753.8	754.4
15°	727.6	734.6	747.7	765.1	770.5	765.6	758.9	752.9	751.9	752.6	754.7
17.5°	758.9	764.1	779.3	793.9	789.9	769.9	755.3	745.6	740.8	739.2	741.4
20°	802.7	802.7	815.1	824.2	797.8	763.8	741.1	725.3	715.2	710.9	710.0
22.5°	855.8	851.0	858.8	852.4	796.3	746.8	715.2	687.9	672.7	666.7	665.7
25°	923.2	917.4	915.3	875.9	785.4	719.8	668.5	635.4	622.1	618.7	619.3
27.5°	1024.9	1010.3	982.7	888.6	765.3	677.3	613.9	583.1	575.5	575.8	576.8
30°	1160.3	1131.1	1063.4	890.7	732.6	617.2	558.0	536.1	532.5	534.0	539.2
32.5°	1285.7	1258.0	1145.9	881.0	682.1	558.3	507.9	493.3	487.8	489.6	492.1
35°	1384.0	1376.4	1222.5	867.4	620.2	503.1	463.0	450.5	439.9	437.5	439.3
37.5°	1476.9	1473.8	1279.9	848.2	558.9	463.8	426.8	410.4	394.9	386.4	386.7
40°	1578.9	1575.8	1317.5	818.8	504.5	429.9	394.3	372.8	353.6	338.1	339.7
42.5°	1693.6	1675.8	1335.5	776.5	458.4	401.0	368.0	338.8	313.5	299.3	300.2
45°	1819.1	1778.7	1335.2	722.8	419.5	374.6	339.7	298.4	275.0	261.7	261.1
47.5°	1952.0	1877.0	1318.8	663.3	381.9	345.4	296.0	264.4	249.0	240.8	238.9
50°	2089.3	1969.0	1290.8	595.0	343.4	312.4	268.7	247.1	235.2	227.7	225.0
52.5°	2218.2	2052.5	1257.1	517.6	304.2	280.2	256.6	239.8	227.3	218.8	215.2
55°	2338.1	2124.4	1209.4	438.4	272.3	258.6	250.7	236.8	222.5	212.5	208.6
57.5°	2444.7	2171.2	1127.2	364.0	249.6	243.7	244.7	231.6	215.2	206.7	201.3
60°	2533.4	2205.5	1005.4	295.1	231.0	229.2	235.2	221.9	202.7	193.1	188.8
62.5°	2586.5	2204.9	856.1	241.7	215.2	215.9	222.8	209.8	190.3	181.2	178.5
65°	2581.9	2150.9	692.2	206.7	200.1	200.7	209.8	196.4	180.0	174.6	174.2
67.5°	2490.5	2019.0	530.9	184.0	183.4	186.1	196.7	187.3	173.6	173.0	173.9
70°	2243.1	1745.6	382.5	165.7	166.0	170.0	184.0	181.5	170.4	171.5	171.2
72.5°	1798.7	1330.9	256.9	146.7	146.9	153.3	171.8	177.0	167.0	183.1	185.5
75°	1197.9	829.9	165.1	126.3	126.6	134.8	161.2	168.2	157.8	182.4	184.0
77.5°	575.5	373.1	119.6	106.3	106.3	113.9	139.3	150.6	134.5	141.8	130.0
80°	198.8	140.2	94.1	85.6	83.7	89.0	117.5	130.6	115.9	106.9	100.1
82.5°	78.3	72.9	75.5	66.5	60.4	63.8	91.3	107.7	85.3	77.1	76.8
85°	44.9	47.4	53.4	44.0	35.0	39.2	67.1	77.4	64.4	56.8	58.0
87.5°	12.1	16.7	24.6	22.8	15.8	16.7	31.9	42.8	37.0	28.5	29.4
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)