

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: P961829

Luminaire Tested: **NAV-SB2B-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961829
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9477.2 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

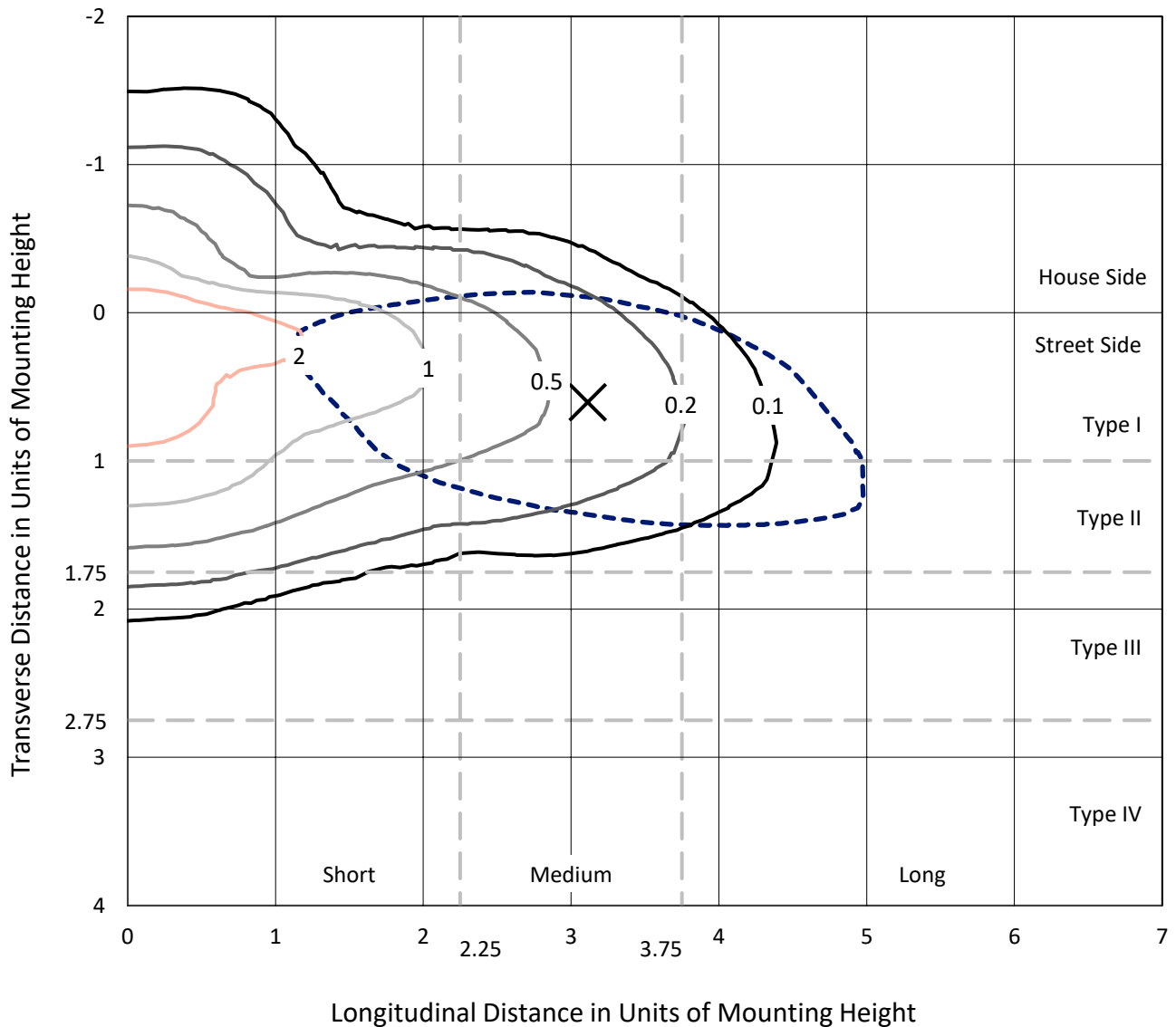
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

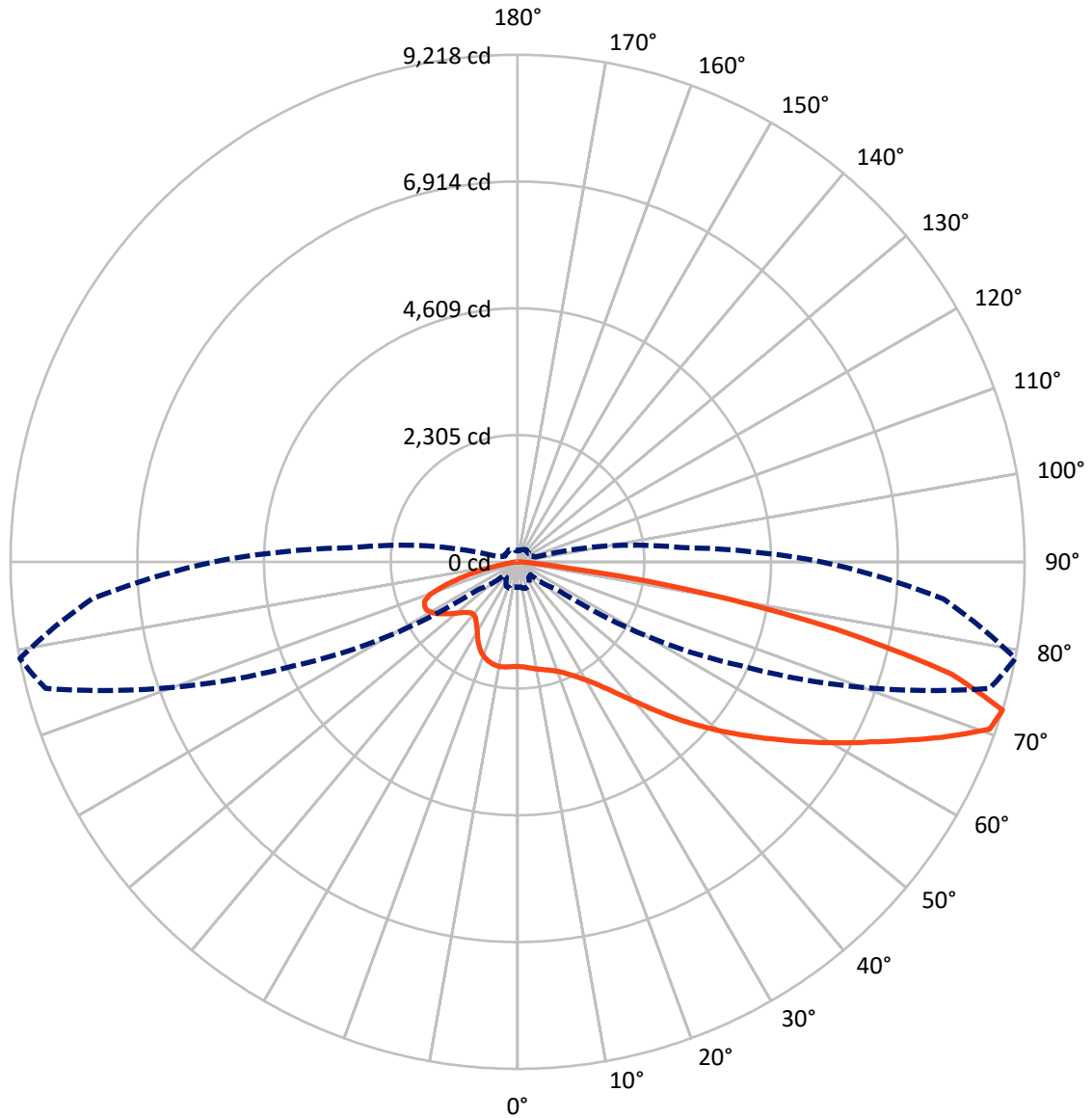
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2085.5	0.0	2085.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7391.7	0.0	7391.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	9477.2	0.0	9477.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	1.8
10°-20°	451.5	4.8
20°-30°	728.5	7.7
30°-40°	1093.4	11.5
40°-50°	1551.1	16.4
50°-60°	1958.8	20.7
60°-70°	1989.4	21.0
70°-80°	1355.9	14.3
80°-90°	175.9	1.9
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°	9477.2	100.0
0°-180°	9477.2	100.0

Coefficient of Utilization

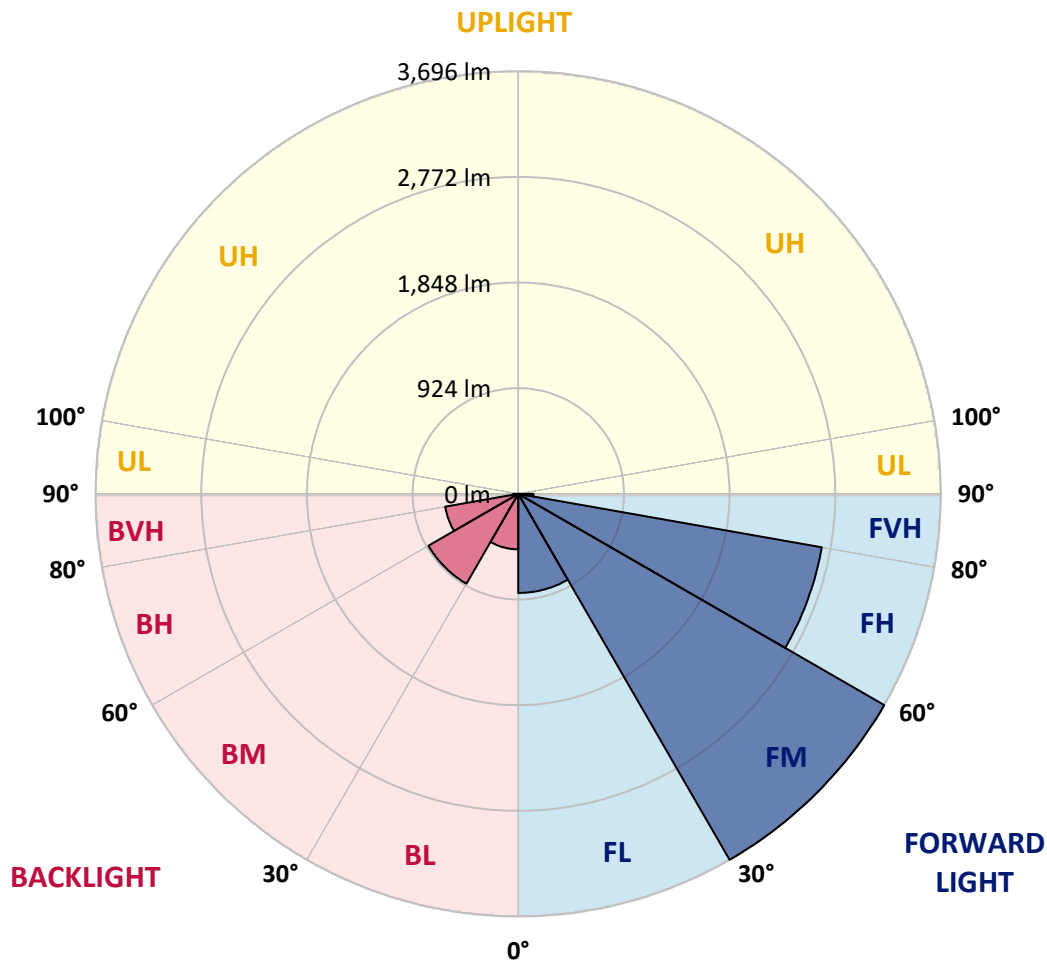


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	866.9	9.1			
FM (30°-60°)	3696.3	39.0			
FH (60°-80°)	2695.9	28.4			G2/5000
FVH (80°-90°)	132.5	1.4			G2/225
BL (0°-30°)	485.8	5.1	B1/500		
BM (30°-60°)	907.0	9.6	B1/1000		
BH (60°-80°)	649.4	6.9	B2/1000		G2/1000
BVH (80°-90°)	43.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4
2.5°	1903.4	1894.4	1899.9	1897.9	1900.5	1903.4	1904.4	1906.0	1911.0	1910.5	1910.0
5°	1899.4	1890.4	1897.9	1895.4	1902.0	1909.0	1915.0	1920.5	1928.5	1932.0	1927.0
7.5°	1890.9	1884.9	1892.5	1899.9	1911.9	1922.5	1931.0	1943.6	1955.1	1957.1	1960.6
10°	1841.3	1836.8	1854.3	1873.9	1906.9	1935.5	1954.1	1968.6	1981.1	1983.2	1988.2
12.5°	1789.6	1784.1	1803.7	1830.2	1884.0	1935.5	1974.7	1993.7	2004.7	2011.3	2018.7
15°	1781.1	1776.6	1787.6	1810.7	1855.4	1922.0	1988.7	2023.8	2033.3	2040.8	2043.8
17.5°	1822.2	1813.7	1818.2	1826.2	1852.3	1909.5	1999.7	2057.9	2072.3	2080.4	2080.4
20°	1917.5	1905.5	1898.4	1882.4	1877.9	1911.4	1998.6	2099.0	2118.0	2128.0	2130.6
22.5°	2044.4	2036.3	2021.3	1980.6	1936.5	1936.0	2017.7	2151.6	2187.1	2196.7	2190.7
25°	2197.7	2185.7	2166.6	2111.5	2026.7	1984.7	2049.8	2218.8	2278.5	2280.9	2263.4
27.5°	2374.2	2356.2	2330.0	2257.4	2143.1	2060.9	2099.0	2296.0	2383.2	2382.2	2346.1
30°	2560.1	2542.1	2514.5	2426.3	2282.5	2163.7	2167.2	2379.2	2507.6	2502.0	2440.3
32.5°	2696.1	2682.5	2677.0	2608.8	2442.9	2284.9	2245.4	2471.4	2660.9	2655.9	2569.7
35°	2800.3	2782.8	2789.2	2754.7	2617.8	2420.8	2341.1	2581.3	2847.4	2846.9	2739.6
37.5°	2903.5	2888.0	2893.6	2870.5	2779.7	2593.2	2457.8	2715.5	3078.5	3089.6	2945.1
40°	2997.8	2981.2	3003.4	2981.7	2905.6	2776.7	2590.7	2867.4	3346.2	3367.2	3193.8
42.5°	3054.4	3041.4	3078.0	3078.5	3014.8	2931.6	2736.6	3034.9	3656.0	3703.1	3499.6
45°	3074.0	3069.5	3124.6	3136.2	3111.6	3021.4	2868.0	3217.4	3989.9	4074.1	3848.1
47.5°	3053.0	3044.5	3120.6	3163.3	3182.7	3063.4	2976.7	3414.9	4330.7	4454.0	4228.0
50°	2946.7	2930.2	3043.4	3133.1	3202.8	3091.0	3086.5	3643.0	4718.3	4853.2	4610.0
52.5°	2755.7	2743.1	2871.9	3027.8	3158.7	3104.6	3209.9	3892.1	5086.3	5260.7	5001.5
55°	2511.6	2495.0	2636.8	2840.4	3049.0	3100.1	3333.2	4170.8	5520.3	5697.4	5406.1
57.5°	2124.5	2091.4	2270.9	2511.6	2870.0	3094.6	3461.5	4448.1	5961.5	6173.6	5837.7
60°	1560.0	1511.0	1731.0	2016.3	2520.1	3040.9	3620.4	4758.9	6490.9	6681.9	6308.9
62.5°	908.4	879.8	1023.7	1289.9	1899.4	2725.1	3709.7	5120.3	7011.2	7211.8	6772.1
65°	705.3	697.3	709.8	730.4	1057.3	2040.3	3434.5	5472.8	7672.9	7813.4	7254.8
67.5°	645.1	639.2	644.7	606.1	536.4	1136.4	2717.1	5562.0	8381.8	8467.0	7677.5
70°	573.5	566.5	584.6	551.4	422.1	516.8	1755.5	5238.2	8945.8	9105.7	7998.8
72.5°	467.2	459.2	501.3	486.3	355.5	331.9	881.8	4468.6	8886.6	9218.4	7768.7
75°	359.0	354.4	404.6	417.1	289.8	261.2	423.1	3321.6	7820.3	8154.7	6695.4
77.5°	278.7	275.2	300.7	346.4	233.6	202.5	260.1	2107.0	5893.3	5952.0	4614.0
80°	209.0	199.1	222.6	268.2	181.9	147.9	176.5	1228.7	3725.2	3376.8	2008.2
82.5°	130.8	125.9	145.3	179.0	128.3	101.8	114.8	678.8	1492.9	879.2	387.6
85°	74.7	72.7	79.2	102.3	69.7	58.6	65.7	299.8	272.8	187.5	116.8
87.5°	30.0	29.1	36.1	45.6	25.5	21.5	23.1	72.2	60.2	55.7	38.6
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°	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4	1902.4
2.5°	1907.9	1907.9	1901.0	1889.9	1877.4	1869.4	1856.4	1852.8	1839.3	1835.3	1841.8
5°	1931.0	1927.0	1905.5	1874.4	1831.8	1792.6	1749.6	1722.5	1684.4	1670.9	1680.9
7.5°	1960.1	1949.0	1911.9	1843.8	1754.6	1666.9	1575.6	1506.4	1440.2	1416.7	1419.7
10°	1986.7	1971.2	1907.9	1788.6	1634.3	1482.4	1337.0	1235.2	1158.0	1126.5	1133.4
12.5°	2013.2	1984.7	1881.4	1696.9	1463.3	1257.3	1102.4	1023.2	975.5	937.5	950.0
15°	2038.3	1998.2	1840.3	1574.1	1275.8	1066.8	952.4	889.3	851.3	826.2	830.7
17.5°	2067.4	2009.7	1778.6	1418.2	1097.4	934.9	841.7	803.6	796.1	793.0	795.1
20°	2108.0	2020.3	1697.4	1243.7	966.1	829.6	781.6	778.0	777.6	776.0	781.0
22.5°	2151.6	2032.8	1590.2	1085.4	854.2	764.0	755.4	748.5	743.9	743.4	749.0
25°	2203.2	2036.8	1455.8	955.5	759.0	732.9	722.8	712.4	709.3	709.3	712.4
27.5°	2253.4	2023.2	1299.4	842.7	705.3	704.4	691.3	687.8	687.3	688.8	692.8
30°	2303.5	1997.7	1144.0	738.4	674.2	674.2	669.7	672.3	674.2	679.3	682.8
32.5°	2371.1	1970.7	1014.1	661.2	647.2	642.2	646.7	651.7	653.7	660.2	665.7
35°	2470.5	1951.6	910.9	619.1	619.1	612.6	615.1	614.1	609.6	606.6	613.6
37.5°	2601.8	1950.6	825.6	599.5	595.5	594.5	595.0	588.6	571.0	549.9	550.4
40°	2759.7	1977.6	759.9	586.0	583.0	589.1	586.0	568.5	520.4	483.8	482.8
42.5°	2971.7	2054.8	717.9	569.5	578.5	586.0	574.0	513.3	480.7	456.2	455.2
45°	3221.4	2180.2	696.3	552.0	570.0	579.0	520.9	494.3	468.2	438.6	436.6
47.5°	3504.1	2338.1	691.3	535.4	550.9	556.5	498.3	486.3	456.6	424.6	422.1
50°	3811.9	2525.1	704.8	515.9	523.4	504.3	490.8	479.7	449.2	417.6	414.1
52.5°	4130.2	2731.1	732.0	489.2	495.8	474.8	487.8	478.3	444.6	402.0	399.0
55°	4443.1	2938.7	758.0	458.2	467.7	448.1	479.3	472.2	424.1	376.0	373.5
57.5°	4760.9	3145.2	783.5	430.6	440.6	422.6	465.8	456.2	401.1	351.9	351.0
60°	5091.3	3345.7	795.6	404.1	411.0	399.0	445.2	428.7	374.9	327.4	325.8
62.5°	5400.5	3512.7	776.0	377.5	382.0	377.0	418.1	396.1	348.9	299.8	299.3
65°	5710.9	3611.9	715.9	351.4	352.4	349.9	380.0	360.9	318.4	275.7	272.8
67.5°	5992.0	3667.6	620.1	323.4	320.8	319.8	344.4	322.9	288.7	251.6	248.7
70°	6051.7	3526.2	473.8	290.3	290.3	287.7	305.2	283.2	256.1	226.1	225.1
72.5°	5527.4	2966.2	336.4	252.7	256.7	251.6	266.2	247.6	223.0	203.1	197.0
75°	4457.1	2175.2	244.7	214.0	221.1	212.6	226.1	213.1	192.0	191.5	172.4
77.5°	3062.5	1345.0	177.4	176.5	181.4	170.5	185.9	179.0	159.9	151.4	141.9
80°	1306.9	536.4	129.4	136.3	136.3	126.3	144.4	146.4	129.9	125.9	125.9
82.5°	260.1	152.4	90.7	93.8	88.3	85.2	102.3	113.3	156.4	173.9	174.5
85°	78.2	56.2	54.6	51.1	45.1	45.6	60.2	113.8	140.3	80.3	69.2
87.5°	21.5	14.0	14.6	11.5	9.5	12.5	20.6	86.2	47.2	20.1	17.0
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)