

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: P883057

Luminaire Tested: **NAV-SB3B-722-U-T2**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13336 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

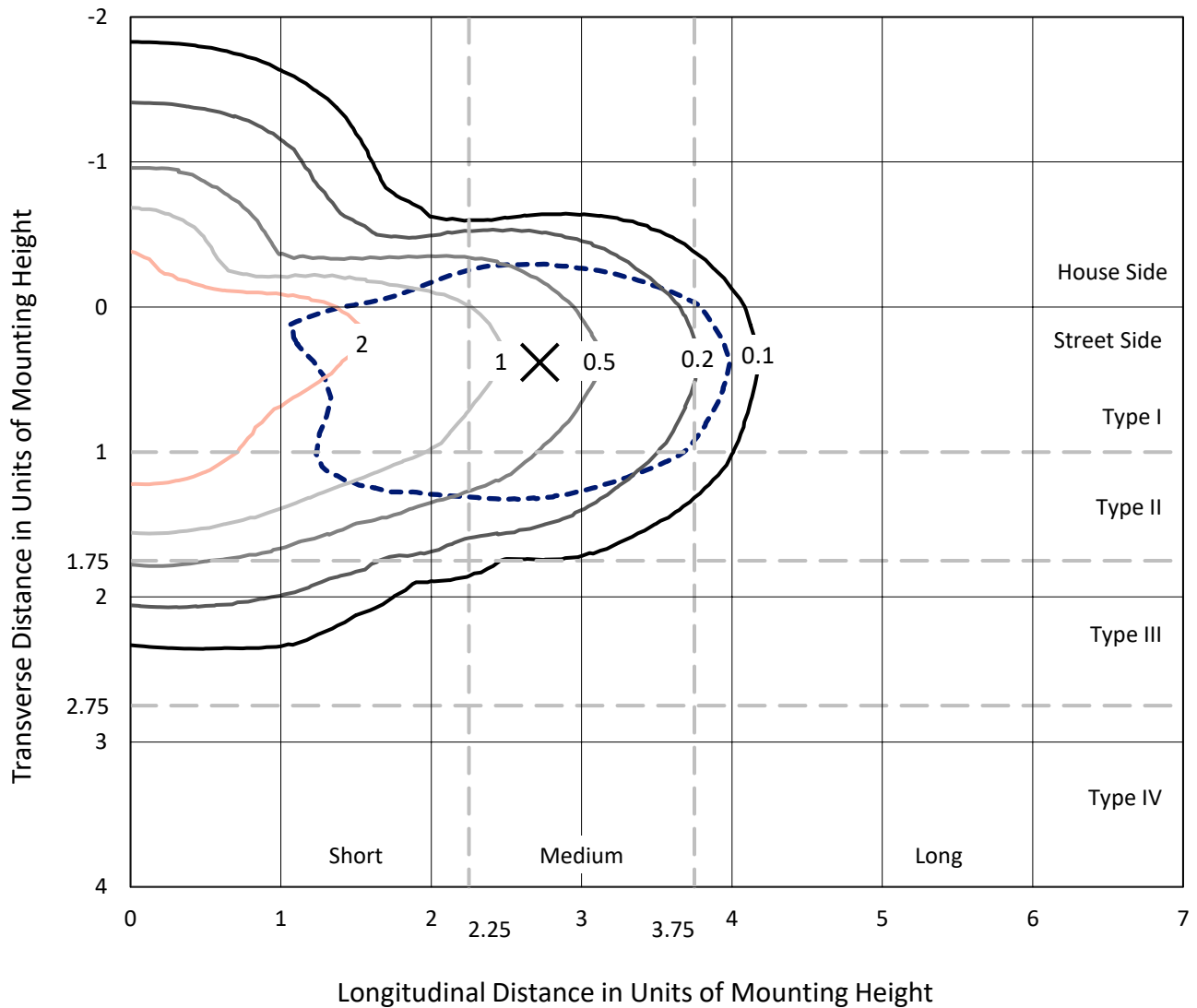
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

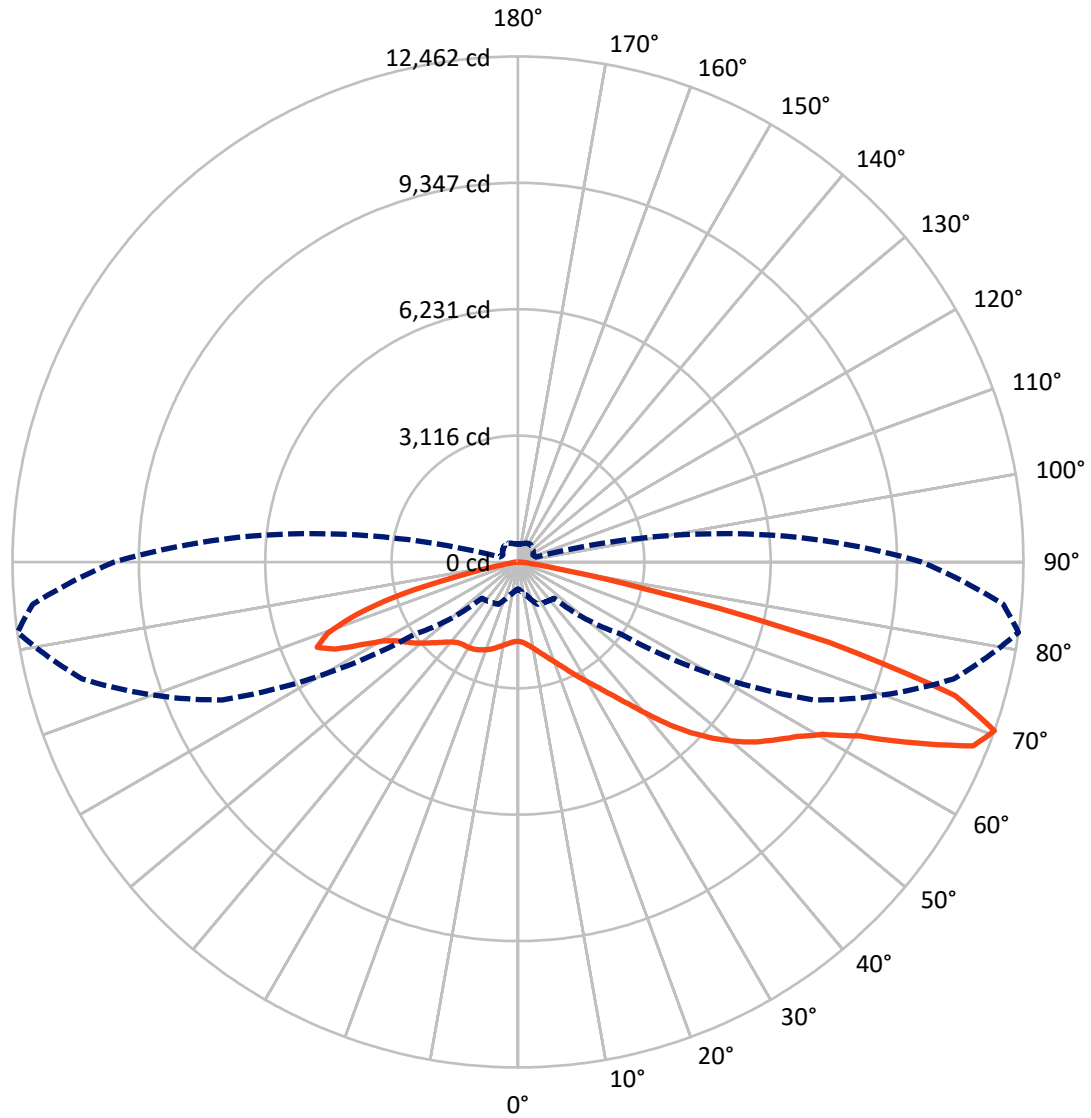
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3287.7	0.0	3287.7
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	10048.3	0.0	10048.3
	% Fixture	75.3	0.0	75.3
Total	Lumens	13336.0	0.0	13336.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	1.4
10°-20°	530.4	4.0
20°-30°	887.3	6.7
30°-40°	1386.2	10.4
40°-50°	2207.6	16.6
50°-60°	3072.2	23.0
60°-70°	3213.7	24.1
70°-80°	1679.6	12.6
80°-90°	174.4	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°	13336.0	100.0
0°-180°	13336.0	100.0

Coefficient of Utilization

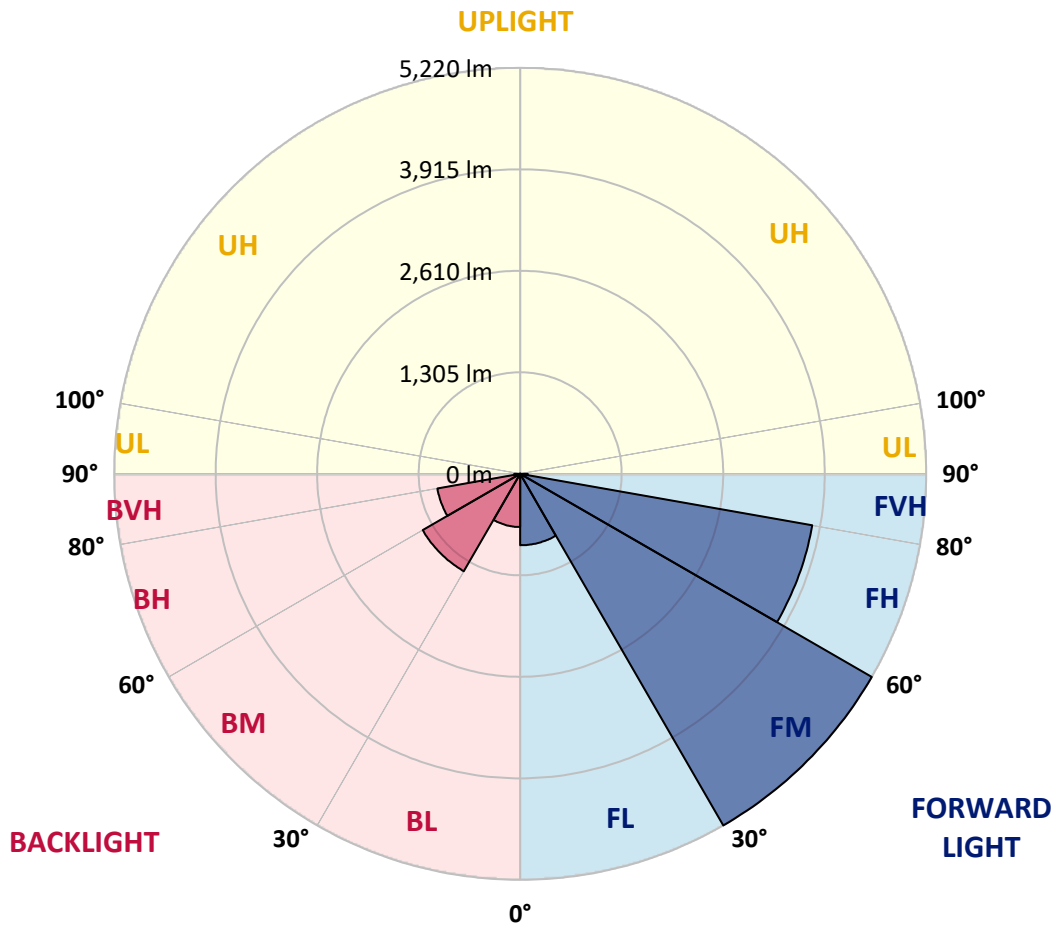


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.3	6.9			
FM (30°-60°)	5219.6	39.1			
FH (60°-80°)	3812.8	28.6			G2/5000
FVH (80°-90°)	97.6	0.7			G1/100
BL (0°-30°)	684.0	5.1	B2/1000		
BM (30°-60°)	1446.4	10.8	B2/2500		
BH (60°-80°)	1080.5	8.1	B3/2500		G3/2500
BVH (80°-90°)	76.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2
2.5°	2001.9	2013.3	2009.7	2006.2	2006.2	2001.2	2000.5	1993.4	1987.8	1978.6	1976.5
5°	2027.4	2039.4	2038.0	2040.8	2050.0	2052.2	2054.3	2050.0	2038.7	2027.4	2022.5
7.5°	2004.8	2018.2	2022.5	2039.4	2067.7	2093.2	2112.3	2120.1	2109.5	2093.2	2085.4
10°	1928.3	1943.2	1958.1	1998.4	2048.6	2108.8	2159.7	2190.2	2188.0	2172.5	2159.0
12.5°	1773.4	1788.9	1820.8	1899.3	1991.3	2097.5	2192.3	2256.0	2277.9	2266.6	2243.2
15°	1649.5	1663.0	1687.0	1767.7	1887.3	2048.6	2204.3	2328.2	2384.1	2377.7	2349.4
17.5°	1646.0	1651.6	1666.5	1704.7	1796.7	1972.2	2191.6	2398.9	2505.8	2505.1	2469.7
20°	1708.3	1710.4	1718.9	1726.7	1779.0	1914.2	2159.0	2457.7	2642.3	2642.3	2604.1
22.5°	1794.6	1793.2	1801.7	1794.6	1820.1	1909.2	2138.5	2509.3	2794.5	2805.8	2757.7
25°	1924.1	1917.0	1914.9	1898.6	1903.6	1955.2	2161.1	2568.0	2974.9	2998.3	2938.1
27.5°	2096.8	2085.4	2077.6	2040.1	2027.4	2050.0	2230.5	2638.8	3175.9	3216.2	3139.8
30°	2321.8	2301.3	2289.9	2224.8	2178.8	2182.4	2335.2	2732.9	3386.1	3451.2	3354.2
32.5°	2628.9	2597.1	2566.6	2459.8	2375.6	2348.0	2470.4	2863.1	3613.9	3718.0	3593.4
35°	2972.8	2947.3	2914.8	2749.9	2620.4	2556.7	2653.0	3045.0	3880.7	4045.6	3883.6
37.5°	3304.0	3282.1	3297.6	3075.4	2908.4	2815.7	2892.1	3289.1	4209.8	4453.2	4247.3
40°	3646.5	3629.5	3631.6	3419.3	3224.7	3120.7	3182.3	3595.5	4587.0	4937.9	4684.6
42.5°	4018.7	4006.0	3963.5	3775.3	3556.6	3459.7	3516.3	3949.4	4991.7	5489.9	5164.4
45°	4435.5	4427.7	4388.1	4172.3	3921.8	3812.8	3889.2	4340.0	5398.6	6009.3	5646.3
47.5°	4795.7	4802.1	4797.1	4615.3	4355.6	4195.6	4286.9	4747.6	5777.2	6497.6	6108.4
50°	4969.1	5002.3	5051.2	4994.6	4833.2	4670.5	4688.2	5141.0	6138.1	6955.4	6551.4
52.5°	4878.5	4941.5	5074.5	5165.1	5227.4	5193.4	5146.0	5531.7	6477.8	7368.7	6970.3
55°	4541.0	4629.4	4850.2	5068.9	5386.6	5633.6	5695.8	5964.7	6809.0	7732.4	7366.6
57.5°	3926.0	4069.7	4267.8	4710.1	5245.1	5846.6	6337.0	6565.5	7160.0	8120.9	7781.3
60°	2871.6	3064.1	3310.4	3968.5	4749.7	5732.6	6882.6	7488.3	7658.8	8624.1	8321.2
62.5°	1837.8	1956.6	2183.1	2803.0	3701.0	5148.8	7049.6	8641.8	8504.5	9449.2	9130.7
65°	1258.2	1334.6	1542.0	1890.1	2392.5	3832.6	6602.3	9506.5	9847.6	10756.9	10514.9
67.5°	914.3	972.3	1149.2	1454.2	1558.9	2268.0	5123.4	9466.9	11153.2	12104.3	11727.8
70°	666.6	707.6	856.3	1149.2	1199.5	1261.7	3103.7	8047.3	11124.9	12462.3	12011.6
72.5°	493.9	522.2	622.0	891.6	970.9	852.0	1536.3	5848.7	9559.6	11272.1	10910.5
75°	357.4	378.6	452.2	682.2	777.0	648.9	766.4	3417.9	6668.1	7929.2	7992.9
77.5°	273.2	289.4	337.5	499.6	622.0	486.9	475.5	1572.4	3161.8	3177.3	3355.7
80°	219.4	230.0	256.2	351.7	477.0	364.4	309.9	634.8	999.2	845.6	887.4
82.5°	161.3	179.0	216.5	247.0	341.1	251.2	188.9	320.6	380.0	326.9	329.8
85°	92.0	104.0	130.9	176.9	218.0	153.6	108.3	142.2	176.9	145.1	129.5
87.5°	32.6	42.5	46.0	69.3	94.8	63.7	41.8	41.0	58.0	43.2	36.1
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°	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2	1955.2
2.5°	1969.4	1965.8	1951.7	1932.6	1912.8	1893.7	1887.3	1873.8	1864.6	1859.7	1865.4
5°	2009.0	1997.7	1964.4	1922.0	1877.4	1829.3	1795.3	1764.2	1741.5	1720.3	1728.8
7.5°	2065.6	2045.8	1988.5	1914.2	1834.9	1755.0	1695.5	1650.2	1619.8	1600.0	1604.2
10°	2131.4	2101.0	2013.3	1902.2	1779.7	1665.1	1595.0	1556.1	1537.0	1526.4	1529.2
12.5°	2207.1	2164.0	2038.7	1874.6	1695.5	1564.6	1516.5	1505.2	1505.9	1506.6	1508.0
15°	2300.6	2240.4	2059.2	1814.4	1585.8	1487.5	1479.0	1497.4	1516.5	1525.7	1525.0
17.5°	2406.0	2321.1	2062.8	1715.3	1478.3	1437.9	1464.8	1504.5	1533.5	1546.2	1549.0
20°	2519.2	2403.2	2037.3	1575.2	1389.8	1397.6	1445.7	1496.7	1528.5	1544.8	1549.0
22.5°	2648.7	2490.9	1976.5	1428.0	1317.6	1353.7	1410.3	1459.9	1493.1	1509.4	1513.7
25°	2796.6	2589.3	1880.9	1304.2	1255.4	1304.2	1360.8	1401.8	1428.7	1443.6	1447.8
27.5°	2960.8	2691.9	1753.5	1205.8	1200.9	1253.2	1299.9	1331.8	1345.9	1357.3	1361.5
30°	3125.7	2785.3	1599.3	1131.5	1153.5	1203.0	1236.3	1250.4	1254.7	1256.8	1261.7
32.5°	3304.0	2866.0	1437.2	1070.0	1108.2	1154.2	1174.0	1180.4	1160.5	1147.1	1151.3
35°	3519.8	2952.3	1278.7	1021.1	1063.6	1103.2	1109.6	1103.9	1080.6	1053.0	1054.4
37.5°	3786.6	3059.9	1152.0	986.5	1021.8	1048.0	1040.2	1038.8	1040.9	1008.4	1010.5
40°	4113.5	3200.0	1059.3	959.6	987.9	993.5	971.6	983.6	994.2	944.7	946.1
42.5°	4476.6	3369.1	1000.6	941.2	959.6	946.1	912.2	925.6	924.2	859.1	858.4
45°	4846.7	3553.1	980.1	927.7	933.4	906.5	869.0	872.5	842.8	784.1	786.2
47.5°	5214.6	3750.5	992.8	916.4	900.8	870.4	841.4	825.8	781.9	738.1	738.1
50°	5575.5	3957.9	1039.5	893.8	856.3	838.6	817.3	789.7	743.0	705.5	702.7
52.5°	5910.3	4166.6	1091.9	856.3	800.3	811.0	797.5	765.7	719.7	681.5	682.2
55°	6227.3	4375.4	1112.4	804.6	748.0	786.9	779.1	720.4	665.2	634.1	631.2
57.5°	6572.6	4626.6	1089.8	738.8	705.5	759.3	729.6	664.5	632.6	609.3	607.2
60°	7051.0	5020.7	1040.9	657.4	665.2	718.3	667.3	640.4	605.7	579.6	578.1
62.5°	7845.7	5756.0	962.4	576.7	617.8	657.4	637.6	610.7	575.3	549.8	549.8
65°	9020.4	6777.8	814.5	513.8	564.7	598.0	605.7	578.9	542.1	515.2	516.6
67.5°	10011.1	7419.0	616.4	461.4	510.2	549.8	571.8	545.6	506.7	480.5	481.2
70°	9956.6	6953.3	470.6	409.7	462.1	502.4	530.7	510.2	468.5	443.7	445.8
72.5°	8843.4	5816.8	380.7	357.4	413.3	452.9	486.9	471.3	428.8	404.8	404.8
75°	6496.9	4129.1	304.3	304.3	352.4	401.2	438.7	428.8	389.9	372.9	368.0
77.5°	2738.6	1732.3	238.5	252.6	293.0	344.6	391.3	394.9	360.9	382.1	346.7
80°	728.2	477.7	181.9	198.8	230.0	284.5	340.4	339.0	302.2	282.4	262.5
82.5°	277.4	188.2	129.5	140.1	166.3	218.0	269.6	278.1	241.3	208.8	208.8
85°	106.9	80.7	80.0	84.2	96.9	144.4	203.8	210.9	181.9	154.3	159.2
87.5°	27.6	24.1	29.7	28.3	44.6	77.1	116.8	121.0	111.1	64.4	92.0
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)