

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: P960787

Luminaire Tested: **NAV-SB1D-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1D-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8779.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

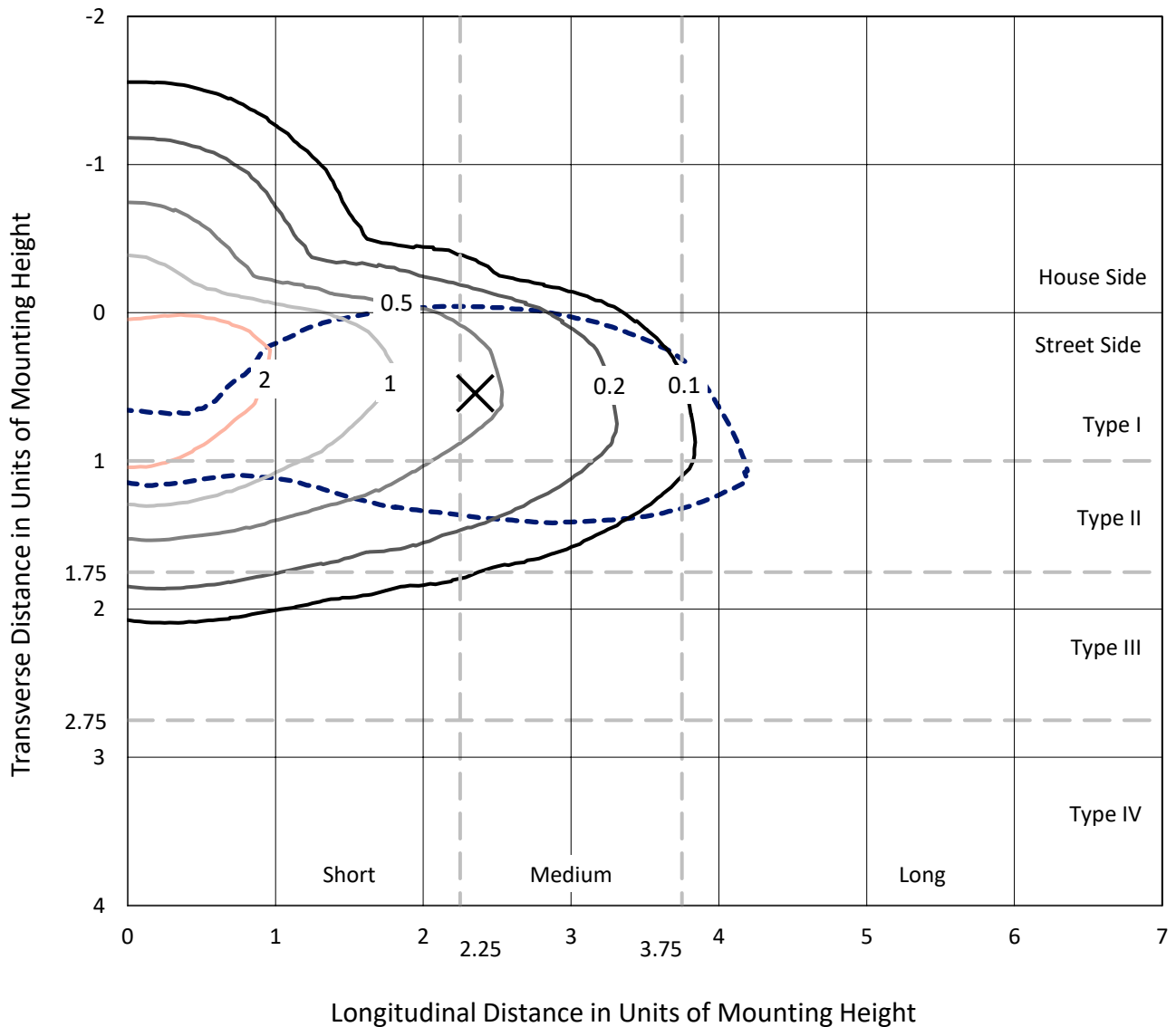
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960787
 CATALOG NUMBER: NAV-SB1D-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

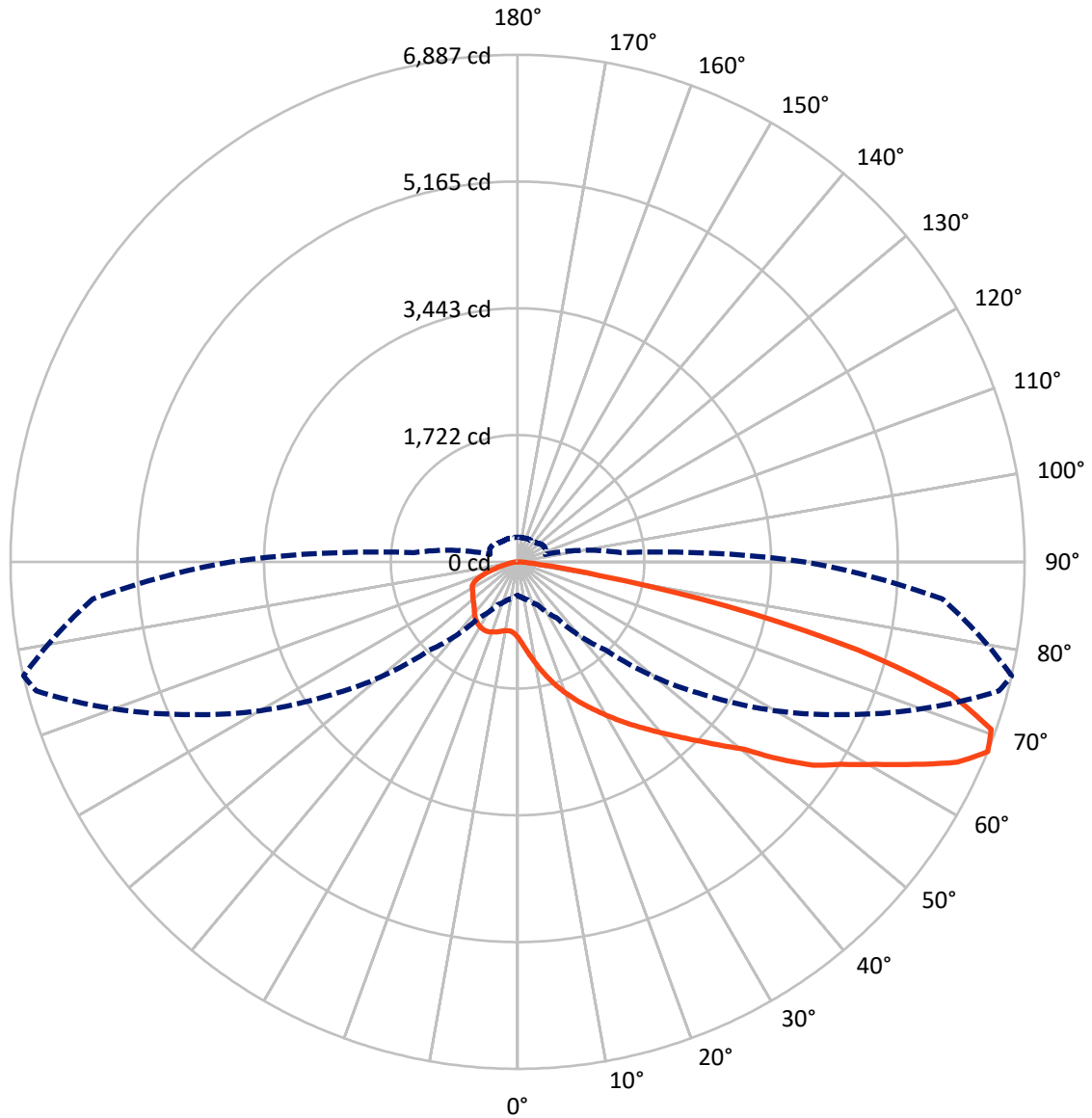
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P960787
CATALOG NUMBER: NAV-SB1D-722-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P960787
 CATALOG NUMBER: NAV-SB1D-722-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1660.6	0.0	1660.6
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	7118.5	0.0	7118.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	8779.1	0.0	8779.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	1.3
10°-20°	396.7	4.5
20°-30°	748.9	8.5
30°-40°	1206.5	13.7
40°-50°	1650.3	18.8
50°-60°	1861.5	21.2
60°-70°	1737.5	19.8
70°-80°	952.4	10.8
80°-90°	114.9	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°	8779.1	100.0
0°-180°	8779.1	100.0

Coefficient of Utilization

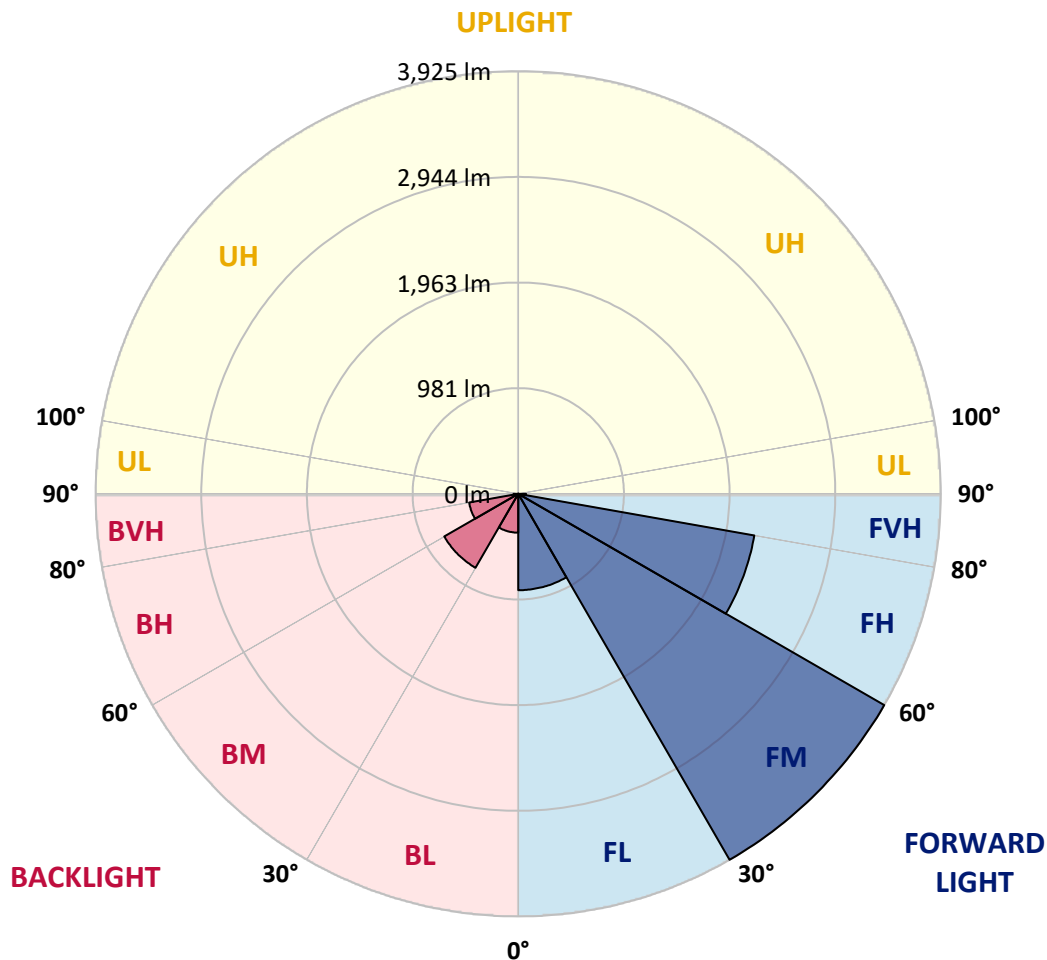


REPORT NUMBER: P960787
 CATALOG NUMBER: NAV-SB1D-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	894.9	10.2			
FM (30°-60°)	3925.0	44.7			
FH (60°-80°)	2226.7	25.4			G2/5000
FVH (80°-90°)	71.8	0.8			G1/100
BL (0°-30°)	361.1	4.1	B1/500		
BM (30°-60°)	793.2	9.0	B1/1000		
BH (60°-80°)	463.3	5.3	B1/500		G1/500
BVH (80°-90°)	43.0	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-G2
 Type II Medium



REPORT NUMBER: P960787
 CATALOG NUMBER: NAV-SB1D-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	1289.8	1298.8	1287.5	1287.5	1249.4	1229.5	1191.4	1162.4	1110.3	1101.3	1066.8
5°	1524.5	1535.8	1520.0	1513.1	1468.3	1427.0	1363.1	1300.1	1207.2	1197.7	1116.6
7.5°	1706.2	1720.7	1706.6	1699.4	1659.5	1613.4	1538.5	1450.6	1319.7	1301.0	1183.7
10°	1854.4	1856.7	1852.1	1854.8	1823.6	1785.6	1708.9	1606.5	1442.9	1417.6	1264.8
12.5°	1938.3	1948.6	1957.7	1974.0	1968.6	1945.0	1876.2	1753.8	1573.4	1540.8	1353.2
15°	1977.6	1995.8	2016.2	2053.8	2084.1	2090.1	2037.5	1911.9	1706.2	1666.8	1442.5
17.5°	1991.7	2008.9	2041.1	2095.5	2160.7	2204.7	2181.1	2065.6	1837.6	1792.3	1536.3
20°	2062.8	2067.8	2087.3	2139.0	2209.7	2282.7	2300.3	2213.3	1967.7	1916.4	1633.2
22.5°	2215.1	2205.2	2210.6	2234.2	2284.9	2355.6	2395.9	2343.8	2101.4	2042.4	1731.1
25°	2466.7	2437.7	2408.6	2381.4	2407.2	2447.2	2492.9	2474.4	2241.4	2166.6	1829.9
27.5°	2784.3	2748.9	2685.1	2595.8	2564.5	2578.6	2599.0	2595.3	2371.0	2295.3	1931.9
30°	3097.0	3055.7	2979.6	2850.4	2768.0	2730.8	2715.4	2705.0	2512.0	2431.3	2034.7
32.5°	3346.7	3314.0	3239.3	3094.7	2975.1	2911.6	2860.5	2823.3	2659.3	2578.6	2143.5
35°	3565.2	3534.7	3449.1	3291.4	3161.3	3093.9	3026.7	2947.5	2812.4	2730.8	2260.4
37.5°	3764.5	3734.2	3616.8	3452.7	3321.7	3275.1	3215.2	3080.6	2966.0	2889.0	2384.1
40°	3890.5	3883.7	3774.0	3588.2	3452.3	3429.1	3409.3	3235.2	3136.4	3064.9	2520.1
42.5°	3922.7	3937.6	3850.6	3697.9	3568.3	3549.7	3596.4	3410.2	3327.7	3259.2	2674.2
45°	3845.2	3888.2	3831.1	3727.3	3650.7	3640.8	3762.3	3601.3	3539.3	3476.8	2860.0
47.5°	3649.0	3721.9	3698.3	3683.8	3673.0	3716.0	3908.1	3804.4	3779.0	3724.6	3072.0
50°	3252.8	3391.1	3432.3	3523.8	3629.0	3774.5	4041.0	4026.0	4059.1	4004.3	3330.3
52.5°	2568.1	2758.5	2997.7	3227.0	3494.0	3755.0	4186.9	4344.2	4483.7	4453.8	3740.9
55°	2119.9	2205.6	2389.6	2810.1	3232.0	3673.0	4252.6	4601.1	4905.1	4878.4	4052.2
57.5°	1775.5	1852.1	1965.4	2316.6	2836.0	3486.7	4293.4	4757.8	5193.8	5191.1	4359.5
60°	1406.2	1487.3	1603.3	1852.1	2373.3	3165.0	4284.3	4936.4	5562.3	5584.9	4734.3
62.5°	989.2	1078.5	1207.2	1439.3	1900.7	2748.0	4099.4	5065.5	5995.9	6057.5	5185.2
65°	650.3	709.2	806.2	1006.6	1416.1	2212.0	3746.4	5082.4	6460.0	6564.2	5608.5
67.5°	455.9	478.6	535.7	644.4	933.6	1696.3	3184.0	4908.8	6769.5	6886.9	5792.0
70°	355.8	367.1	396.1	439.6	586.4	1140.6	2439.9	4457.4	6703.4	6825.7	5600.3
72.5°	307.3	318.2	329.0	334.5	393.4	704.3	1652.7	3726.9	6080.2	6163.1	4869.4
75°	278.7	281.5	290.5	288.6	300.0	456.8	954.0	2715.4	4797.3	4768.7	3594.6
77.5°	234.3	237.9	252.9	250.6	266.5	312.2	495.3	1752.4	3110.2	2916.1	2000.8
80°	198.4	200.3	216.6	213.9	231.5	226.1	252.9	893.2	1319.2	1117.6	576.9
82.5°	68.9	85.2	165.4	170.4	176.7	136.8	146.0	364.4	402.8	308.6	121.0
85°	33.5	35.8	84.3	119.6	119.2	68.9	71.1	130.1	126.9	99.7	40.3
87.5°	5.4	6.8	9.9	46.6	37.2	18.1	24.5	25.4	26.2	22.7	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P960787
 CATALOG NUMBER: NAV-SB1D-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0	1030.0
2.5°	1041.4	1018.7	971.2	927.2	892.8	859.7	841.1	825.2	816.2	814.4	814.4
5°	1069.5	1022.8	936.2	863.3	815.7	780.3	761.8	750.0	744.2	740.5	740.0
7.5°	1109.9	1041.4	918.1	835.2	785.4	759.9	750.5	748.7	748.1	748.7	750.0
10°	1165.5	1071.7	916.4	828.4	786.7	772.6	772.2	772.6	774.5	774.9	775.4
12.5°	1225.8	1103.0	923.5	834.2	803.9	796.2	794.9	794.4	795.8	796.6	797.1
15°	1291.5	1144.3	935.8	847.0	823.0	814.8	813.4	810.8	810.3	809.9	809.3
17.5°	1359.0	1185.0	949.4	860.6	835.2	823.9	818.9	812.5	807.6	806.2	807.6
20°	1427.5	1225.4	958.9	867.4	836.1	820.2	810.3	799.4	790.8	785.8	787.6
22.5°	1500.5	1267.5	964.8	865.6	828.0	806.2	788.0	775.4	762.2	753.6	754.1
25°	1571.6	1304.2	964.3	856.1	812.1	784.4	761.4	745.0	726.9	717.8	717.8
27.5°	1640.0	1337.3	953.0	839.3	789.5	758.6	730.9	711.5	693.8	685.2	684.7
30°	1710.7	1365.0	935.3	814.8	762.7	728.7	698.3	681.5	665.7	657.5	657.1
32.5°	1780.9	1390.3	910.4	784.4	731.8	699.3	669.3	653.9	644.4	644.4	644.8
35°	1855.2	1408.0	877.3	749.1	699.3	668.0	644.4	635.4	634.5	629.0	627.6
37.5°	1933.7	1419.3	837.0	712.9	667.1	637.7	630.4	619.5	610.4	598.6	596.9
40°	2016.2	1430.7	788.5	675.3	633.0	616.7	613.6	599.1	573.3	544.3	540.2
42.5°	2116.3	1438.4	738.2	637.7	597.3	591.8	596.3	571.4	530.2	508.5	508.9
45°	2232.3	1451.1	692.0	600.4	560.6	560.6	579.6	546.9	513.0	499.4	501.6
47.5°	2382.8	1480.5	648.9	559.6	526.5	535.7	542.4	517.5	498.5	481.7	481.2
50°	2600.3	1551.2	604.5	518.4	500.7	518.9	509.3	494.9	472.6	459.1	457.7
52.5°	2870.4	1593.0	565.1	481.2	478.6	496.7	483.1	469.4	452.7	434.6	431.0
55°	3054.4	1600.6	532.0	454.1	463.6	461.8	456.8	444.5	435.5	411.4	411.9
57.5°	3260.1	1616.0	504.8	437.8	454.1	434.2	432.3	421.9	410.1	393.8	388.4
60°	3506.2	1640.0	481.2	431.4	445.9	416.0	406.9	402.8	391.1	382.9	385.2
62.5°	3774.5	1661.8	457.3	432.3	436.4	398.3	384.8	383.3	376.2	373.4	373.4
65°	3957.5	1602.4	427.3	431.4	421.5	380.2	363.0	362.5	356.6	355.8	355.3
67.5°	3893.7	1414.4	387.0	418.7	406.0	362.1	343.1	341.2	333.5	333.9	333.9
70°	3573.8	1146.1	331.3	387.4	387.0	345.7	322.2	316.3	305.9	307.7	309.5
72.5°	2973.7	849.2	256.5	335.4	356.6	330.8	298.2	288.6	275.5	277.4	276.9
75°	2147.6	577.4	186.8	255.1	310.5	313.1	274.6	258.3	242.4	245.2	246.1
77.5°	1098.9	327.2	137.4	175.8	243.8	284.6	253.3	231.5	228.0	253.3	249.7
80°	358.4	164.0	95.1	123.3	160.0	233.0	222.0	197.1	196.2	202.1	173.5
82.5°	106.9	69.3	61.2	81.1	88.4	178.6	191.7	149.1	128.2	135.1	139.6
85°	36.7	33.5	34.8	40.3	42.1	104.7	134.2	98.8	93.4	102.9	101.5
87.5°	8.6	11.8	9.9	9.0	9.0	25.4	52.1	41.2	57.1	38.0	36.7
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)