

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: P960291

Luminaire Tested: **NAV-SB1C-727-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960291
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-SB1C-727-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7254.9 lumens
Efficiency: N/A
Efficacy: 133.4 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

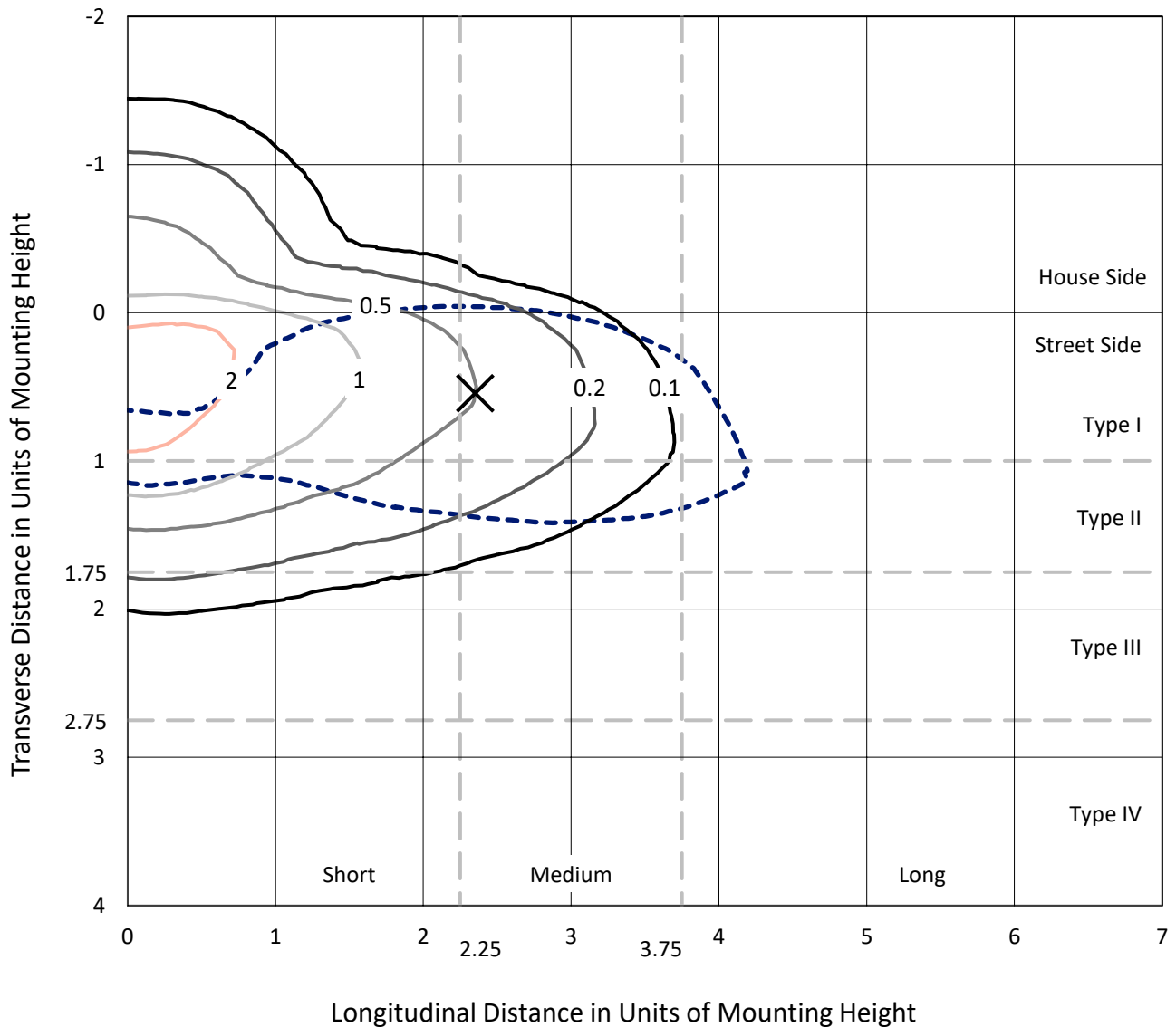
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P960291
 CATALOG NUMBER: NAV-SB1C-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

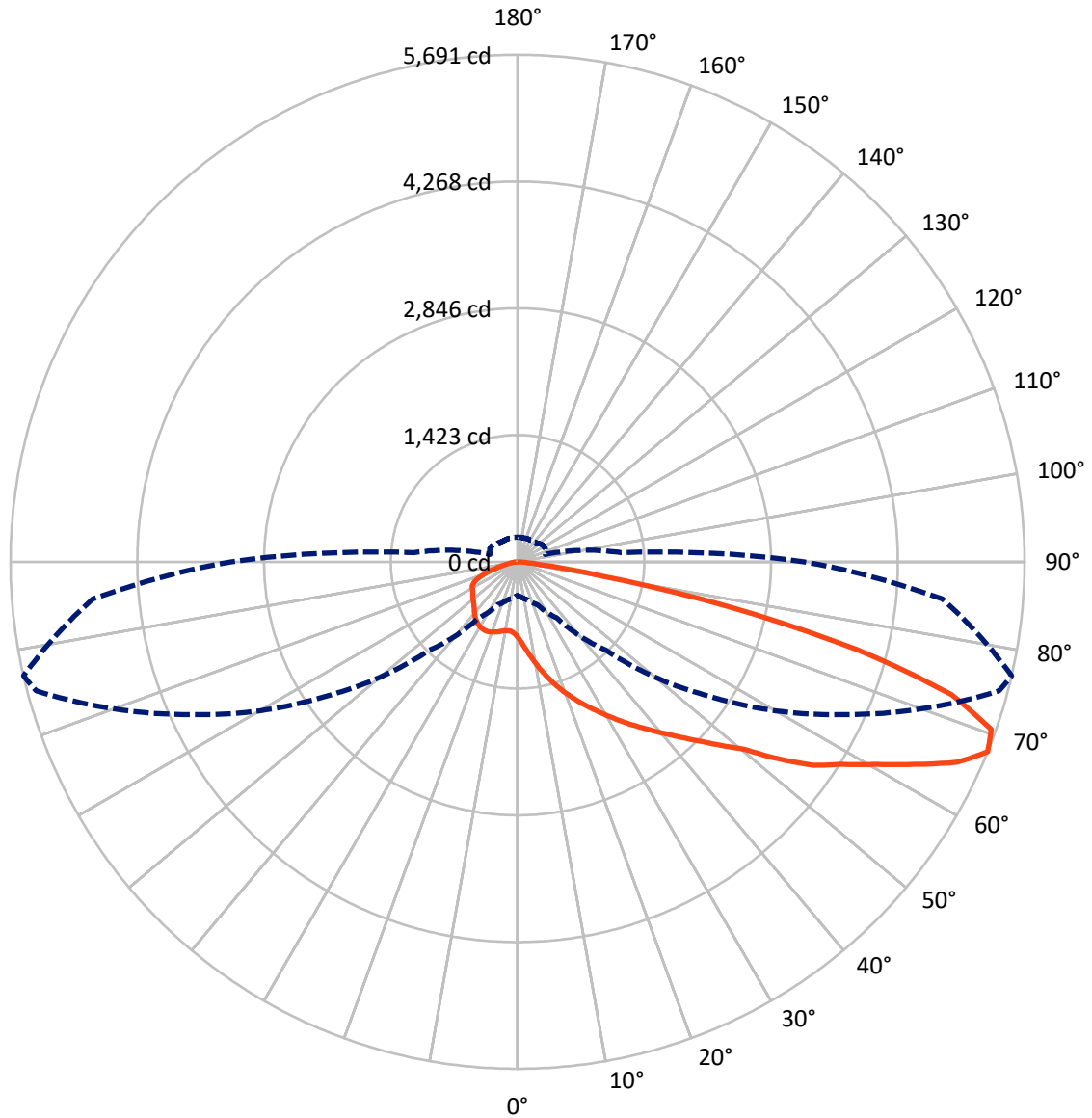
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P960291
CATALOG NUMBER: NAV-SB1C-727-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P960291
 CATALOG NUMBER: NAV-SB1C-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1372.3	0.0	1372.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	5882.6	0.0	5882.6
	% Fixture	81.1	0.0	81.1
Total	Lumens	7254.9	0.0	7254.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.3
10°-20°	327.8	4.5
20°-30°	618.9	8.5
30°-40°	997.0	13.7
40°-50°	1363.8	18.8
50°-60°	1538.3	21.2
60°-70°	1435.8	19.8
70°-80°	787.1	10.8
80°-90°	94.9	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°	7254.9	100.0
0°-180°	7254.9	100.0

Coefficient of Utilization

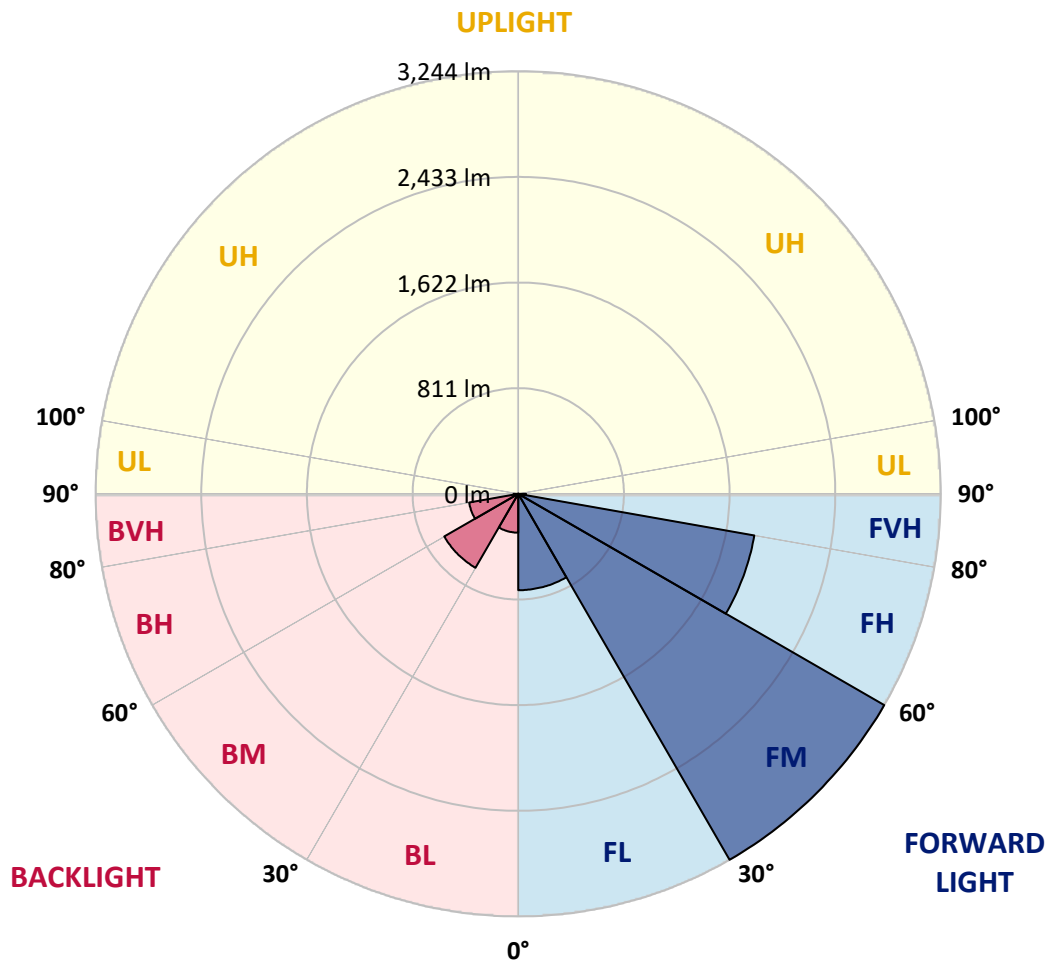


REPORT NUMBER: P960291
 CATALOG NUMBER: NAV-SB1C-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	739.6	10.2			
FM (30°-60°)	3243.6	44.7			
FH (60°-80°)	1840.1	25.4			G2/5000
FVH (80°-90°)	59.4	0.8			G1/100
BL (0°-30°)	298.4	4.1	B1/500		
BM (30°-60°)	655.5	9.0	B1/1000		
BH (60°-80°)	382.9	5.3	B1/500		G1/500
BVH (80°-90°)	35.6	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: P960291
 CATALOG NUMBER: NAV-SB1C-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3
2.5°	1065.8	1073.3	1063.9	1063.9	1032.5	1016.0	984.5	960.6	917.5	910.0	881.6
5°	1259.8	1269.2	1256.0	1250.4	1213.4	1179.3	1126.5	1074.4	997.6	989.8	922.8
7.5°	1410.0	1422.0	1410.4	1404.4	1371.4	1333.2	1271.4	1198.7	1090.5	1075.2	978.2
10°	1532.5	1534.3	1530.5	1532.8	1507.0	1475.5	1412.2	1327.6	1192.4	1171.5	1045.2
12.5°	1601.8	1610.4	1617.9	1631.3	1626.8	1607.3	1550.4	1449.4	1300.2	1273.3	1118.3
15°	1634.3	1649.3	1666.1	1697.2	1722.3	1727.2	1683.8	1580.0	1410.0	1377.4	1192.0
17.5°	1645.9	1660.2	1686.7	1731.6	1785.6	1821.9	1802.5	1706.9	1518.5	1481.1	1269.6
20°	1704.7	1708.8	1725.0	1767.6	1826.0	1886.3	1901.0	1829.0	1626.1	1583.7	1349.7
22.5°	1830.5	1822.3	1826.8	1846.2	1888.3	1946.7	1980.0	1936.9	1736.6	1687.9	1430.6
25°	2038.4	2014.4	1990.4	1968.0	1989.3	2022.3	2060.1	2044.8	1852.3	1790.5	1512.2
27.5°	2300.9	2271.7	2218.9	2145.1	2119.3	2130.9	2147.8	2144.7	1959.4	1896.9	1596.4
30°	2559.3	2525.2	2462.4	2355.6	2287.4	2256.7	2244.0	2235.3	2075.8	2009.2	1681.5
32.5°	2765.7	2738.7	2676.9	2557.5	2458.6	2406.2	2363.9	2333.1	2197.5	2130.9	1771.4
35°	2946.2	2921.0	2850.3	2719.9	2612.5	2556.7	2501.3	2435.7	2324.1	2256.7	1868.0
37.5°	3111.0	3085.9	2988.9	2853.3	2745.1	2706.5	2657.0	2545.8	2451.1	2387.4	1970.3
40°	3215.0	3209.5	3118.8	2965.2	2852.9	2833.8	2817.3	2673.5	2591.9	2532.7	2082.6
42.5°	3241.7	3254.0	3182.1	3055.9	2948.8	2933.4	2972.0	2818.1	2750.0	2693.4	2209.9
45°	3177.6	3213.2	3166.0	3080.2	3017.0	3008.7	3109.0	2976.1	2924.8	2873.2	2363.4
47.5°	3015.4	3075.7	3056.2	3044.2	3035.3	3070.9	3229.7	3143.9	3123.0	3078.0	2538.7
50°	2688.2	2802.4	2836.5	2912.1	2998.9	3119.2	3339.3	3327.0	3354.4	3309.0	2752.2
52.5°	2122.3	2279.6	2477.3	2666.7	2887.3	3103.1	3460.0	3590.0	3705.3	3680.6	3091.5
55°	1751.9	1822.7	1974.8	2322.2	2670.9	3035.3	3514.3	3802.2	4053.6	4031.4	3348.8
57.5°	1467.3	1530.5	1624.2	1914.4	2343.6	2881.4	3547.9	3931.8	4292.1	4289.8	3602.7
60°	1162.0	1229.1	1325.0	1530.5	1961.2	2615.5	3540.5	4079.4	4596.6	4615.3	3912.3
62.5°	817.5	891.3	997.6	1189.4	1570.6	2271.0	3387.7	4186.1	4955.0	5005.9	4285.0
65°	537.4	586.1	666.2	831.8	1170.3	1827.9	3096.0	4199.9	5338.4	5424.6	4634.7
67.5°	376.8	395.4	442.7	532.5	771.4	1401.8	2631.2	4056.5	5594.2	5691.2	4786.4
70°	294.0	303.3	327.3	363.3	484.6	942.6	2016.3	3683.5	5539.5	5640.7	4628.1
72.5°	253.9	262.9	271.9	276.3	325.0	582.0	1365.8	3079.8	5024.7	5093.1	4023.9
75°	230.3	232.6	240.1	238.5	247.9	377.5	788.3	2244.0	3964.4	3940.8	2970.6
77.5°	193.6	196.6	209.0	207.0	220.2	258.0	409.3	1448.2	2570.2	2409.9	1653.4
80°	164.0	165.5	179.0	176.8	191.4	186.9	209.0	738.1	1090.2	923.5	476.7
82.5°	56.9	70.4	136.7	140.8	146.1	113.1	120.5	301.1	332.9	255.0	100.0
85°	27.7	29.6	69.7	98.9	98.5	56.9	58.8	107.5	104.9	82.4	33.3
87.5°	4.5	5.6	8.2	38.5	30.7	15.0	20.2	21.0	21.7	18.8	7.5
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: P960291
 CATALOG NUMBER: NAV-SB1C-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3	851.3
2.5°	860.6	841.8	802.6	766.2	737.8	710.4	695.1	681.9	674.4	673.0	673.0
5°	883.9	845.2	773.7	713.4	674.1	644.9	629.6	619.8	614.9	611.9	611.5
7.5°	917.2	860.6	758.7	690.2	649.0	628.0	620.1	618.7	618.3	618.7	619.8
10°	963.2	885.7	757.3	684.6	650.2	638.5	638.2	638.5	640.0	640.4	640.7
12.5°	1013.0	911.5	763.2	689.4	664.4	657.9	656.8	656.5	657.6	658.4	658.8
15°	1067.3	945.6	773.4	700.0	680.1	673.3	672.2	669.9	669.6	669.2	668.8
17.5°	1123.1	979.3	784.5	711.1	690.2	680.8	676.7	671.5	667.4	666.2	667.4
20°	1179.7	1012.6	792.4	716.8	691.0	677.8	669.6	660.6	653.5	649.3	650.9
22.5°	1239.9	1047.4	797.3	715.2	684.2	666.2	651.3	640.7	629.9	622.8	623.2
25°	1298.8	1077.8	796.9	707.5	671.1	648.2	629.1	615.7	600.6	593.2	593.2
27.5°	1355.3	1105.2	787.6	693.6	652.4	626.9	604.0	587.9	573.4	566.2	565.9
30°	1413.7	1128.0	773.0	673.3	630.3	602.2	577.1	563.2	550.1	543.4	543.0
32.5°	1471.8	1148.9	752.3	648.2	604.9	577.9	553.1	540.4	532.5	532.5	532.9
35°	1533.2	1163.6	725.0	619.0	577.9	552.0	532.5	525.0	524.3	519.8	518.6
37.5°	1598.0	1172.9	691.7	589.1	551.2	527.0	520.9	512.0	504.4	494.7	493.2
40°	1666.1	1182.2	651.6	558.0	523.2	509.7	507.1	495.1	473.8	449.8	446.4
42.5°	1748.9	1188.7	610.1	527.0	493.5	489.1	492.8	472.2	438.2	420.1	420.6
45°	1844.8	1199.1	571.8	496.2	463.3	463.3	479.0	452.0	423.9	412.7	414.6
47.5°	1969.1	1223.4	536.3	462.5	435.2	442.7	448.2	427.6	411.9	398.1	397.7
50°	2148.9	1281.9	499.6	428.4	413.8	428.8	421.0	409.0	390.6	379.4	378.2
52.5°	2372.1	1316.3	467.0	397.7	395.4	410.4	399.2	388.0	374.1	359.2	356.2
55°	2524.1	1322.8	439.6	375.3	383.1	381.6	377.5	367.4	359.9	340.0	340.4
57.5°	2694.1	1335.5	417.2	361.7	375.3	358.7	357.3	348.7	339.0	325.4	320.9
60°	2897.5	1355.3	397.7	356.5	368.5	343.8	336.3	332.9	323.2	316.4	318.4
62.5°	3119.2	1373.3	377.9	357.3	360.6	329.2	318.0	316.8	310.9	308.6	308.6
65°	3270.5	1324.2	353.1	356.5	348.3	314.2	300.0	299.6	294.7	294.0	293.6
67.5°	3217.7	1168.8	319.8	346.0	335.6	299.2	283.5	282.0	275.6	276.0	276.0
70°	2953.2	947.1	273.8	320.2	319.8	285.8	266.3	261.4	252.8	254.3	255.7
72.5°	2457.4	701.8	212.0	277.2	294.7	273.4	246.4	238.5	227.7	229.2	228.8
75°	1774.8	477.1	154.3	210.8	256.6	258.8	226.9	213.5	200.4	202.6	203.4
77.5°	908.2	270.4	113.5	145.3	201.5	235.1	209.3	191.4	188.4	209.3	206.3
80°	296.2	135.6	78.6	101.9	132.2	192.5	183.5	162.9	162.2	167.1	143.4
82.5°	88.4	57.3	50.5	67.0	73.0	147.6	158.4	123.2	106.0	111.6	115.3
85°	30.3	27.7	28.8	33.3	34.8	86.5	110.8	81.6	77.2	85.0	83.8
87.5°	7.1	9.7	8.2	7.5	7.5	21.0	43.0	34.0	47.2	31.5	30.3
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)