

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: P961314

Luminaire Tested: **NAV-SB2A-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961314
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-SB2A-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7736.7 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

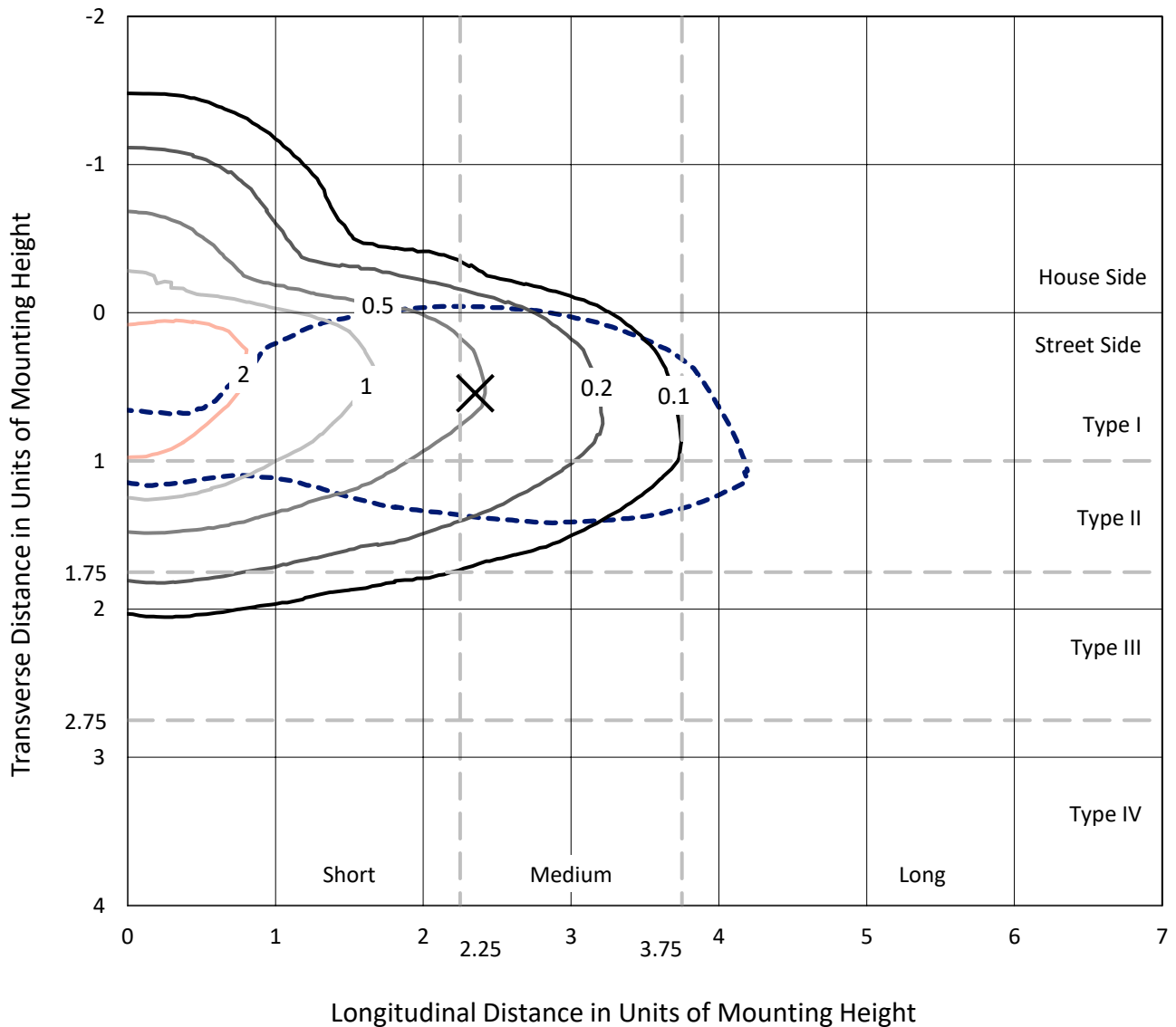
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

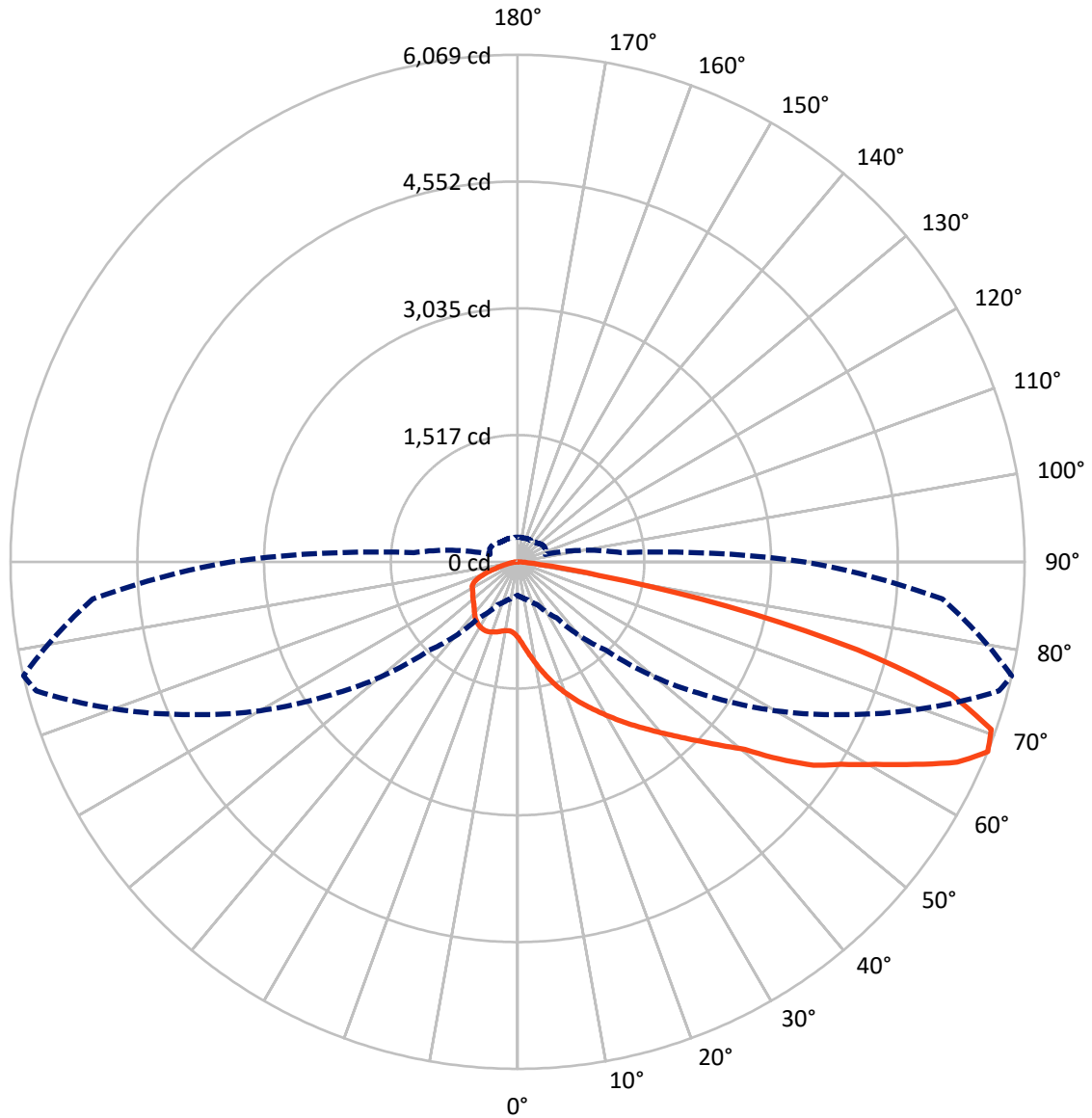
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.5	0.0	1463.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	6273.2	0.0	6273.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	7736.7	0.0	7736.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.3
10°-20°	349.6	4.5
20°-30°	660.0	8.5
30°-40°	1063.2	13.7
40°-50°	1454.3	18.8
50°-60°	1640.5	21.2
60°-70°	1531.2	19.8
70°-80°	839.3	10.8
80°-90°	101.2	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°	7736.7	100.0
0°-180°	7736.7	100.0

Coefficient of Utilization

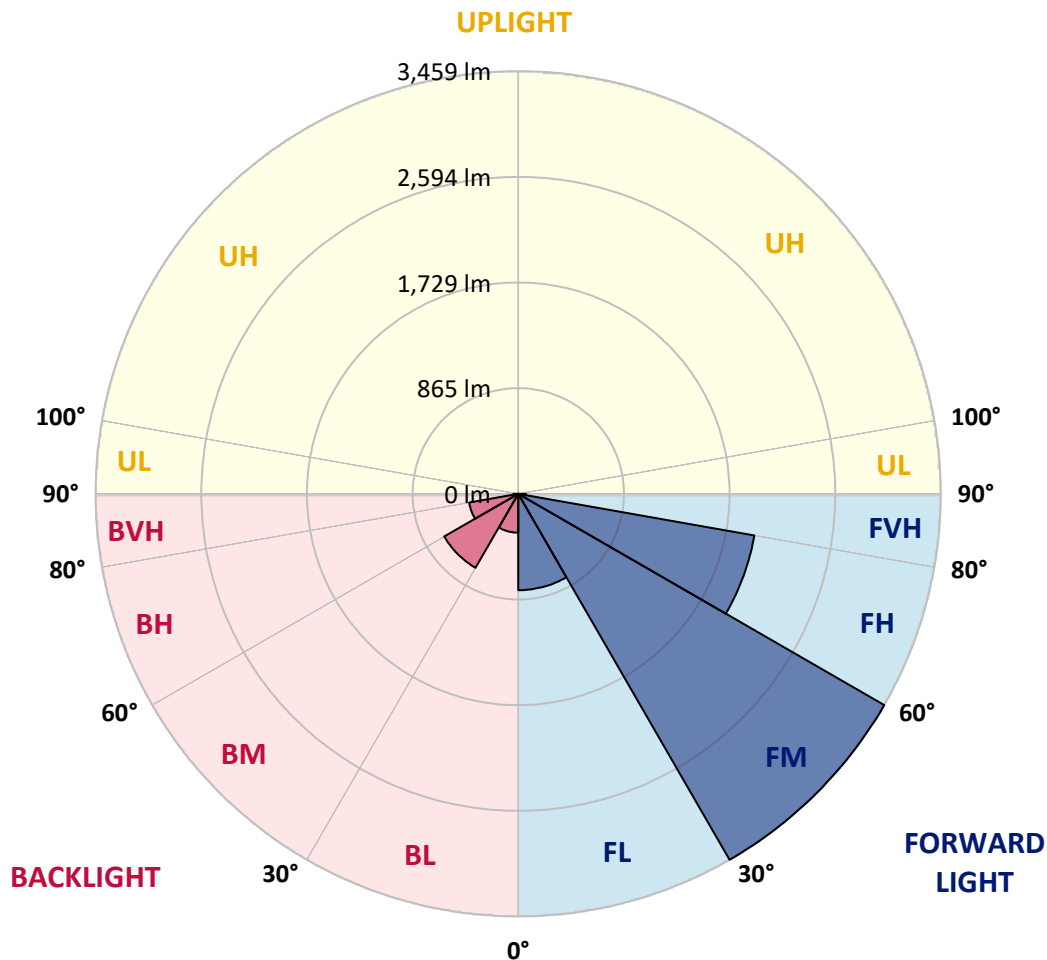


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	788.7	10.2			
FM (30°-60°)	3459.0	44.7			
FH (60°-80°)	1962.3	25.4			G2/5000
FVH (80°-90°)	63.3	0.8			G1/100
BL (0°-30°)	318.2	4.1	B1/500		
BM (30°-60°)	699.1	9.0	B1/1000		
BH (60°-80°)	408.3	5.3	B1/500		G1/500
BVH (80°-90°)	37.9	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-G2
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7
2.5°	1136.6	1144.6	1134.6	1134.6	1101.1	1083.4	1049.9	1024.4	978.5	970.5	940.1
5°	1343.5	1353.4	1339.5	1333.5	1294.0	1257.6	1201.3	1145.7	1063.9	1055.5	984.0
7.5°	1503.6	1516.4	1504.0	1497.6	1462.5	1421.8	1355.9	1278.4	1163.0	1146.6	1043.1
10°	1634.2	1636.2	1632.2	1634.6	1607.0	1573.5	1506.0	1415.7	1271.6	1249.2	1114.6
12.5°	1708.1	1717.3	1725.3	1739.6	1734.8	1714.1	1653.3	1545.5	1386.6	1357.8	1192.5
15°	1742.8	1758.8	1776.7	1809.9	1836.7	1841.8	1795.5	1684.9	1503.6	1468.8	1271.2
17.5°	1755.2	1770.4	1798.8	1846.6	1904.1	1942.9	1922.2	1820.3	1619.4	1579.5	1353.8
20°	1817.9	1822.3	1839.5	1885.0	1947.3	2011.6	2027.1	1950.5	1734.0	1688.9	1439.3
22.5°	1952.1	1943.3	1948.1	1968.8	2013.6	2075.9	2111.4	2065.5	1851.9	1799.9	1525.6
25°	2173.7	2148.2	2122.7	2098.7	2121.4	2156.6	2196.9	2180.5	1975.3	1909.4	1612.6
27.5°	2453.6	2422.6	2366.2	2287.6	2260.0	2272.4	2290.4	2287.2	2089.5	2022.7	1702.5
30°	2729.3	2692.9	2625.8	2512.0	2439.3	2406.6	2393.0	2383.8	2213.7	2142.6	1793.1
32.5°	2949.3	2920.5	2854.6	2727.2	2621.8	2565.9	2520.8	2488.1	2343.5	2272.4	1889.0
35°	3141.8	3115.1	3039.5	2900.5	2786.0	2726.5	2667.4	2597.5	2478.4	2406.6	1992.0
37.5°	3317.5	3290.8	3187.3	3042.7	2927.3	2886.2	2833.5	2714.9	2613.9	2546.0	2101.0
40°	3428.5	3422.6	3325.9	3162.1	3042.4	3022.0	3004.4	2851.0	2764.0	2700.9	2220.9
42.5°	3456.9	3470.0	3393.4	3258.8	3144.6	3128.2	3169.4	3005.2	2932.5	2872.3	2356.7
45°	3388.6	3426.6	3376.2	3284.8	3217.3	3208.5	3315.6	3173.7	3119.1	3063.9	2520.4
47.5°	3215.7	3280.0	3259.2	3246.5	3236.8	3274.8	3444.1	3352.7	3330.3	3282.4	2707.3
50°	2866.6	2988.5	3024.8	3105.4	3198.1	3326.3	3561.2	3547.9	3577.1	3528.8	2934.9
52.5°	2263.2	2430.9	2641.8	2843.9	3079.1	3309.1	3689.7	3828.3	3951.3	3924.9	3296.7
55°	1868.3	1943.7	2105.9	2476.5	2848.3	3236.8	3747.6	4054.8	4322.7	4299.2	3571.1
57.5°	1564.7	1632.2	1732.0	2041.6	2499.3	3072.7	3783.6	4193.0	4577.1	4574.7	3841.9
60°	1239.2	1310.7	1413.0	1632.2	2091.5	2789.1	3775.6	4350.3	4901.8	4921.7	4172.2
62.5°	871.8	950.5	1063.9	1268.3	1675.0	2421.8	3612.6	4464.1	5284.0	5338.3	4569.6
65°	573.1	625.0	710.4	887.0	1248.0	1949.3	3301.5	4478.8	5693.0	5784.8	4942.5
67.5°	401.8	421.7	472.0	567.8	822.7	1494.9	2805.9	4325.9	5965.7	6069.1	5104.3
70°	313.5	323.5	349.0	387.3	516.8	1005.2	2150.1	3928.1	5907.4	6015.2	4935.4
72.5°	270.8	280.3	290.0	294.7	346.7	620.6	1456.5	3284.4	5358.3	5431.4	4291.2
75°	245.6	248.0	255.9	254.4	264.3	402.5	840.7	2393.0	4227.7	4202.5	3167.8
77.5°	206.4	209.7	222.8	220.9	234.8	275.2	436.5	1544.4	2740.8	2569.9	1763.2
80°	175.0	176.5	190.9	188.5	204.1	199.3	222.8	787.1	1162.6	984.8	508.4
82.5°	60.7	75.0	145.8	150.2	155.8	120.6	128.6	321.1	355.1	271.9	106.6
85°	29.5	31.6	74.3	105.5	105.1	60.7	62.7	114.6	111.8	87.8	35.6
87.5°	4.8	5.9	8.8	41.1	32.7	16.0	21.5	22.3	23.2	20.0	8.0
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°	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7	907.7
2.5°	917.8	897.8	855.9	817.1	786.8	757.6	741.2	727.2	719.2	717.7	717.7
5°	942.5	901.4	825.1	760.8	718.8	687.7	671.4	660.9	655.8	652.5	652.2
7.5°	978.1	917.8	809.1	736.1	692.1	669.7	661.3	659.8	659.4	659.8	660.9
10°	1027.2	944.5	807.5	730.0	693.3	680.9	680.5	680.9	682.5	683.0	683.3
12.5°	1080.2	972.0	814.0	735.2	708.5	701.7	700.5	700.1	701.3	702.1	702.4
15°	1138.2	1008.4	824.7	746.4	725.3	718.0	716.9	714.4	714.0	713.7	713.3
17.5°	1197.7	1044.4	836.7	758.4	736.1	726.0	721.7	716.1	711.7	710.4	711.7
20°	1258.0	1079.8	845.0	764.3	736.9	722.8	714.0	704.5	696.9	692.5	694.1
22.5°	1322.2	1117.0	850.2	762.8	729.6	710.4	694.5	683.3	671.7	664.1	664.5
25°	1385.0	1149.3	849.8	754.4	715.7	691.3	671.0	656.5	640.6	632.6	632.6
27.5°	1445.2	1178.5	839.9	739.6	695.7	668.5	644.2	627.0	611.4	603.8	603.4
30°	1507.6	1202.8	824.3	718.0	672.1	642.2	615.4	600.6	586.7	579.4	579.1
32.5°	1569.5	1225.3	802.4	691.3	644.9	616.2	589.9	576.3	567.8	567.8	568.3
35°	1635.0	1240.9	773.2	660.1	616.2	588.7	567.8	560.0	559.1	554.3	553.1
37.5°	1704.1	1250.8	737.6	628.2	587.8	561.9	555.6	545.9	537.9	527.6	525.9
40°	1776.7	1260.8	694.8	595.0	557.9	543.6	540.8	528.0	505.2	479.6	476.0
42.5°	1865.0	1267.6	650.6	561.9	526.3	521.5	525.5	503.6	467.3	448.1	448.4
45°	1967.3	1278.8	609.9	529.2	494.0	494.0	510.8	482.1	452.1	440.1	442.1
47.5°	2099.8	1304.7	571.8	493.2	464.0	472.0	478.1	456.1	439.3	424.6	424.1
50°	2291.6	1367.0	532.8	456.8	441.3	457.3	448.8	436.1	416.6	404.6	403.3
52.5°	2529.6	1403.7	498.0	424.1	421.7	437.7	425.7	413.8	398.9	382.9	379.8
55°	2691.8	1410.6	468.8	400.2	408.6	406.9	402.5	391.8	383.8	362.6	363.1
57.5°	2873.1	1424.1	444.8	385.8	400.2	382.6	381.0	371.8	361.4	347.1	342.2
60°	3089.9	1445.2	424.1	380.2	393.0	366.6	358.6	355.1	344.6	337.4	339.5
62.5°	3326.3	1464.5	402.9	381.0	384.6	351.1	339.1	337.8	331.5	329.1	329.1
65°	3487.7	1412.1	376.6	380.2	371.5	335.1	319.9	319.5	314.3	313.5	313.1
67.5°	3431.3	1246.4	341.0	369.0	357.8	319.1	302.3	300.7	294.0	294.4	294.4
70°	3149.4	1010.0	291.9	341.4	341.0	304.7	283.9	278.8	269.6	271.2	272.8
72.5°	2620.6	748.5	226.0	295.5	314.3	291.5	262.8	254.4	242.8	244.4	244.1
75°	1892.6	508.8	164.5	224.9	273.6	275.9	242.0	227.7	213.6	216.1	216.9
77.5°	968.4	288.3	121.1	155.0	214.8	250.8	223.2	204.1	200.9	223.2	220.1
80°	315.9	144.5	83.8	108.6	140.9	205.3	195.7	173.7	172.9	178.1	152.9
82.5°	94.3	61.1	53.9	71.4	77.9	157.3	168.9	131.4	113.1	119.0	123.0
85°	32.4	29.5	30.7	35.6	37.1	92.2	118.2	87.0	82.3	90.6	89.5
87.5°	7.6	10.4	8.8	8.0	8.0	22.3	45.9	36.4	50.3	33.5	32.4
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)