

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: P960263

Luminaire Tested: **NAV-SB1C-722-U-T2**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-722-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6285.3 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

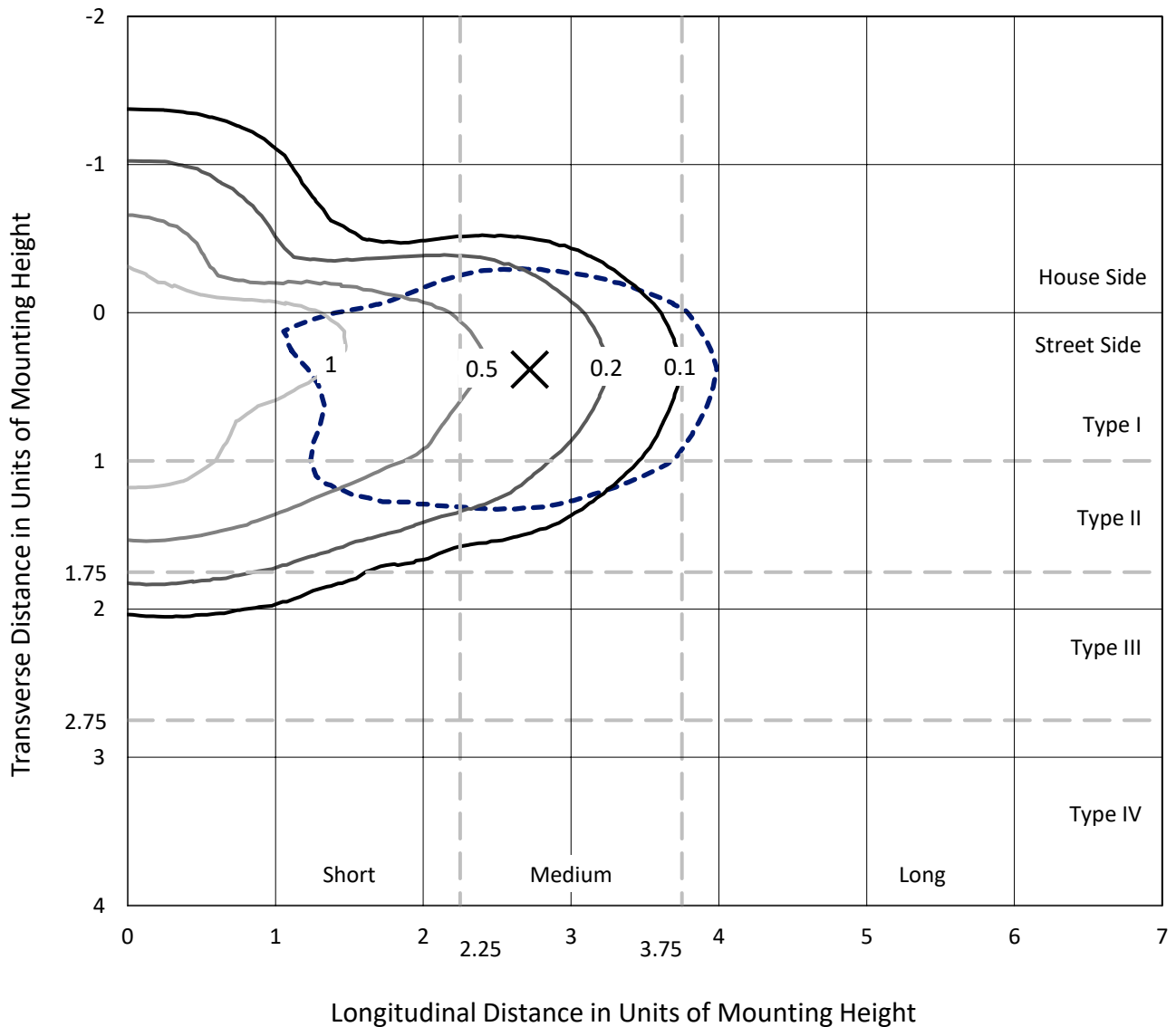
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

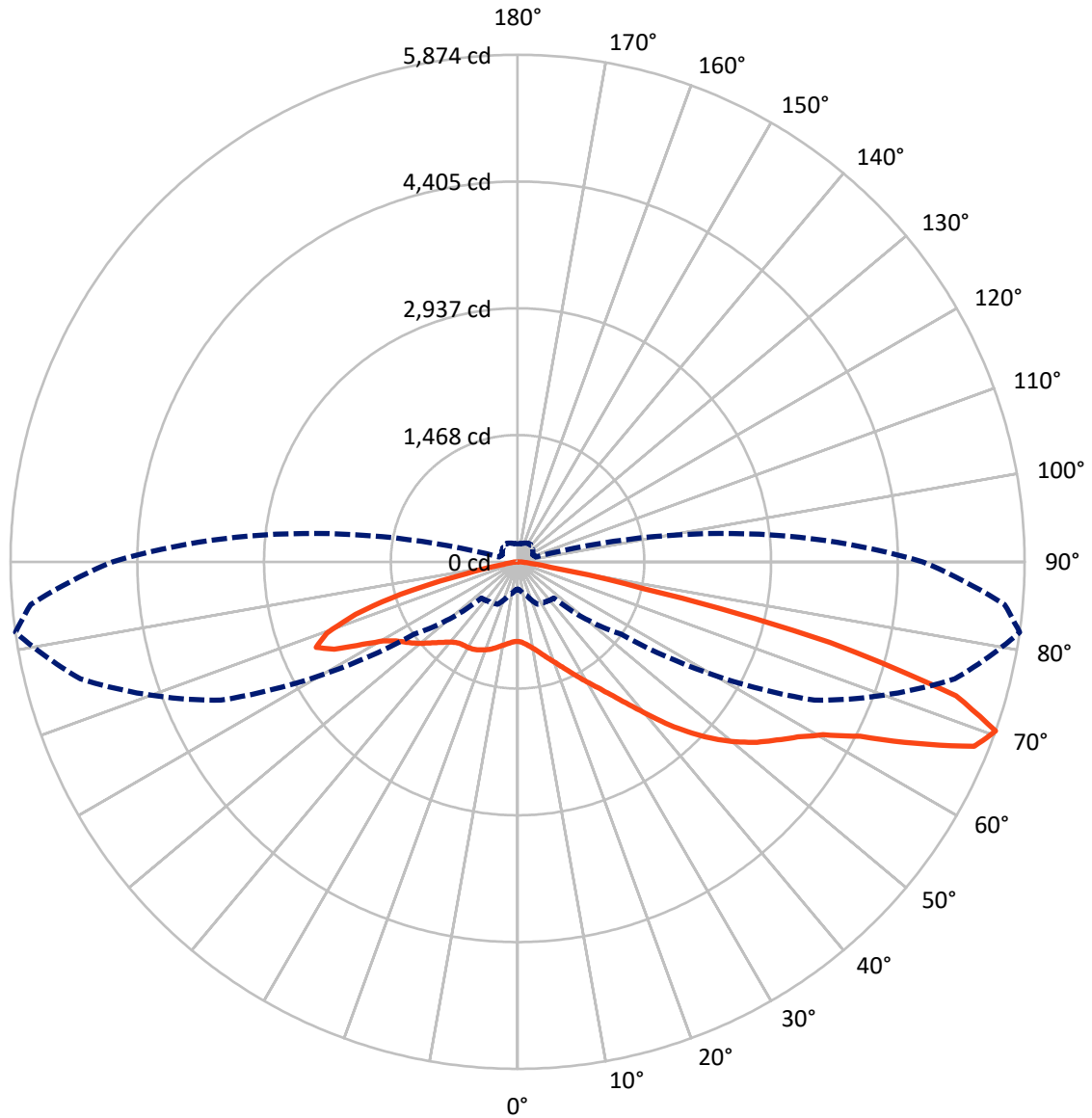
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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
<b>House Side</b>	Lumens	1549.5	0.0	1549.5
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	4735.8	0.0	4735.8
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	6285.3	0.0	6285.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.0	1.4
10°-20°	250.0	4.0
20°-30°	418.2	6.7
30°-40°	653.3	10.4
40°-50°	1040.5	16.6
50°-60°	1447.9	23.0
60°-70°	1514.6	24.1
70°-80°	791.6	12.6
80°-90°	82.2	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°	6285.3	100.0
0°-180°	6285.3	100.0

**Coefficient of Utilization**

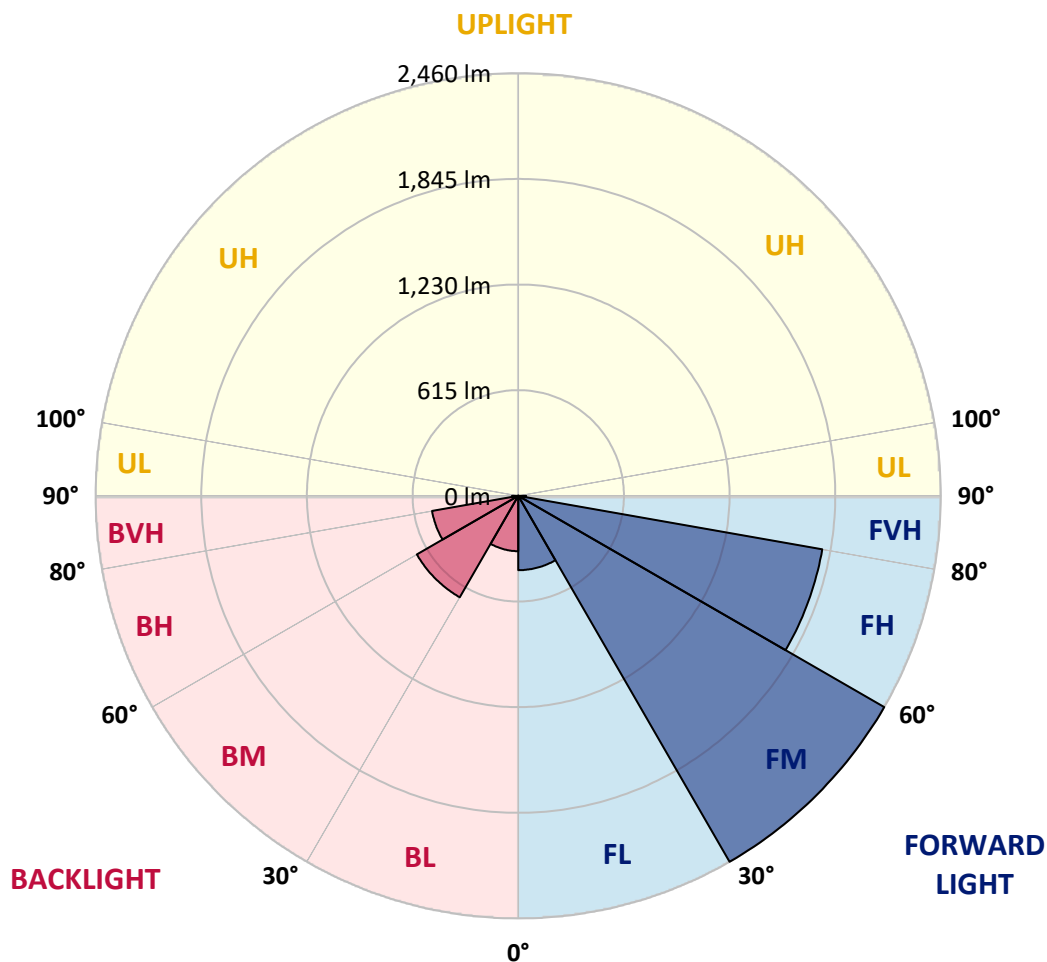


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	432.8	6.9			
FM (30°-60°)	2460.0	39.1			
FH (60°-80°)	1797.0	28.6			G1/1800
FVH (80°-90°)	46.0	0.7			G1/100
BL (0°-30°)	322.3	5.1	B1/500		
BM (30°-60°)	681.7	10.8	B1/1000		
BH (60°-80°)	509.2	8.1	B2/1000		G2/1000
BVH (80°-90°)	36.2	0.6			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°	82°	85°
0°	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5
2.5°	943.5	948.8	947.2	945.6	945.6	943.2	942.9	939.5	936.8	932.5	931.5
5°	955.5	961.1	960.5	961.9	966.2	967.2	968.2	966.2	960.8	955.5	953.1
7.5°	944.8	951.2	953.1	961.1	974.6	986.6	995.6	999.2	994.2	986.6	982.9
10°	908.9	915.8	922.8	941.9	965.6	993.8	1017.9	1032.3	1031.3	1023.9	1017.5
12.5°	835.8	843.2	858.1	895.1	938.5	988.5	1033.2	1063.2	1073.6	1068.3	1057.3
15°	777.5	783.7	795.1	833.1	889.5	965.6	1038.9	1097.3	1123.6	1120.6	1107.3
17.5°	775.7	778.4	785.5	803.4	846.8	929.5	1032.9	1130.6	1181.0	1180.6	1164.0
20°	805.1	806.1	810.2	813.7	838.4	902.2	1017.5	1158.2	1245.4	1245.4	1227.3
22.5°	845.8	845.1	849.1	845.8	857.8	899.8	1007.9	1182.6	1317.0	1322.4	1299.7
25°	906.8	903.5	902.5	894.8	897.2	921.5	1018.5	1210.3	1402.1	1413.1	1384.8
27.5°	988.2	982.9	979.2	961.6	955.5	966.2	1051.2	1243.6	1496.8	1515.9	1479.8
30°	1094.3	1084.6	1079.2	1048.6	1026.8	1028.6	1100.6	1288.0	1595.8	1626.6	1580.9
32.5°	1239.0	1224.0	1209.7	1159.3	1119.6	1106.6	1164.3	1349.4	1703.2	1752.3	1693.6
35°	1401.1	1389.1	1373.7	1296.0	1235.0	1205.0	1250.4	1435.1	1829.0	1906.7	1830.3
37.5°	1557.2	1546.8	1554.2	1449.5	1370.7	1327.1	1363.0	1550.2	1984.1	2098.8	2001.7
40°	1718.6	1710.6	1711.6	1611.5	1519.9	1470.8	1499.8	1694.6	2161.8	2327.3	2207.8
42.5°	1894.0	1888.0	1868.1	1779.3	1676.3	1630.6	1657.2	1861.4	2352.6	2587.4	2434.0
45°	2090.5	2086.8	2068.1	1966.4	1848.4	1797.0	1833.0	2045.5	2544.4	2832.2	2661.1
47.5°	2260.2	2263.2	2260.9	2175.2	2052.8	1977.4	2020.5	2237.6	2722.8	3062.3	2878.9
50°	2341.9	2357.6	2380.7	2353.9	2278.0	2201.2	2209.5	2423.0	2893.0	3278.2	3087.7
52.5°	2299.3	2328.9	2391.6	2434.4	2463.7	2447.7	2425.4	2607.1	3053.0	3472.9	3285.1
55°	2140.2	2181.8	2286.0	2389.0	2538.7	2655.2	2684.5	2811.2	3209.1	3644.3	3471.9
57.5°	1850.3	1918.1	2011.5	2219.8	2472.0	2755.5	2986.6	3094.4	3374.5	3827.5	3667.3
60°	1353.4	1444.1	1560.2	1870.3	2238.6	2701.8	3243.8	3529.3	3609.6	4064.5	3921.9
62.5°	866.1	922.2	1028.9	1321.0	1744.2	2426.7	3322.4	4072.9	4008.2	4453.4	4303.4
65°	593.0	629.0	726.7	890.8	1127.6	1806.4	3111.7	4480.5	4641.2	5069.8	4955.7
67.5°	430.9	458.3	541.6	685.4	734.7	1068.9	2414.7	4461.7	5256.5	5704.7	5527.3
70°	314.2	333.5	403.5	541.6	565.3	594.7	1462.8	3792.7	5243.2	5873.6	5661.1
72.5°	232.8	246.1	293.2	420.2	457.6	401.6	724.1	2756.5	4505.5	5312.6	5142.1
75°	168.4	178.5	213.1	321.5	366.2	305.9	361.2	1610.9	3142.8	3737.0	3767.1
77.5°	128.7	136.4	159.1	235.4	293.2	229.5	224.2	741.1	1490.1	1497.5	1581.6
80°	103.4	108.3	120.7	165.7	224.8	171.8	146.1	299.2	470.9	398.5	418.2
82.5°	76.1	84.4	102.1	116.4	160.7	118.4	89.1	151.1	179.1	154.1	155.4
85°	43.4	49.0	61.7	83.3	102.7	72.4	51.0	67.0	83.3	68.4	61.0
87.5°	15.4	20.0	21.6	32.7	44.7	30.0	19.7	19.4	27.4	20.3	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

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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5	921.5
2.5°	928.1	926.5	919.8	910.8	901.5	892.5	889.5	883.1	878.8	876.5	879.1
5°	946.9	941.6	925.9	905.8	884.8	862.1	846.1	831.5	820.8	810.8	814.8
7.5°	973.5	964.2	937.2	902.2	864.8	827.1	799.1	777.8	763.4	754.1	756.0
10°	1004.5	990.3	948.8	896.5	838.8	784.7	751.7	733.4	724.4	719.3	720.7
12.5°	1040.3	1019.9	960.8	883.4	799.1	737.4	714.7	709.4	709.7	710.0	710.7
15°	1084.2	1056.0	970.6	855.2	747.4	701.1	697.0	705.7	714.7	719.0	718.7
17.5°	1134.0	1093.9	972.2	808.4	696.7	677.7	690.3	709.1	722.7	728.8	730.1
20°	1187.4	1132.6	960.2	742.4	655.0	658.7	681.4	705.4	720.4	728.1	730.1
22.5°	1248.3	1173.9	931.5	673.0	621.0	638.1	664.7	688.1	703.8	711.3	713.4
25°	1318.0	1220.4	886.5	614.7	591.6	614.7	641.3	660.7	673.3	680.4	682.3
27.5°	1395.4	1268.6	826.5	568.3	566.0	590.6	612.6	627.7	634.4	639.7	641.6
30°	1473.1	1312.7	753.8	533.3	543.7	566.9	582.6	589.3	591.3	592.3	594.7
32.5°	1557.2	1350.7	677.3	504.3	522.2	544.0	553.3	556.3	546.9	540.6	542.6
35°	1658.9	1391.4	602.7	481.2	501.2	520.0	523.0	520.3	509.3	496.3	496.9
37.5°	1784.6	1442.1	542.9	464.9	481.6	493.9	490.3	489.6	490.6	475.3	476.2
40°	1938.7	1508.2	499.3	452.2	465.6	468.2	457.9	463.6	468.6	445.3	445.9
42.5°	2109.9	1587.8	471.6	443.6	452.2	445.9	429.9	436.2	435.5	404.9	404.6
45°	2284.2	1674.5	462.0	437.3	439.9	427.2	409.6	411.2	397.2	369.5	370.5
47.5°	2457.6	1767.6	467.9	431.9	424.6	410.2	396.6	389.2	368.5	347.9	347.9
50°	2627.8	1865.4	489.9	421.3	403.5	395.2	385.2	372.2	350.2	332.5	331.2
52.5°	2785.5	1963.7	514.7	403.5	377.2	382.2	375.9	360.9	339.2	321.1	321.5
55°	2935.0	2062.1	524.3	379.2	352.5	370.8	367.2	339.5	313.5	298.8	297.5
57.5°	3097.7	2180.5	513.6	348.2	332.5	357.8	343.9	313.1	298.2	287.2	286.2
60°	3323.2	2366.3	490.6	309.9	313.5	338.6	314.5	301.9	285.5	273.2	272.4
62.5°	3697.7	2712.8	453.6	271.8	291.2	309.9	300.5	287.8	271.1	259.1	259.1
65°	4251.3	3194.4	383.9	242.1	266.2	281.8	285.5	272.9	255.4	242.8	243.4
67.5°	4718.3	3496.6	290.5	217.4	240.5	259.1	269.5	257.2	238.8	226.4	226.8
70°	4692.6	3277.1	221.8	193.1	217.8	236.8	250.1	240.5	220.8	209.1	210.1
72.5°	4168.0	2741.5	179.5	168.4	194.7	213.4	229.5	222.1	202.1	190.8	190.8
75°	3062.0	1946.1	143.4	143.4	166.0	189.1	206.7	202.1	183.8	175.8	173.4
77.5°	1290.7	816.4	112.4	119.1	138.1	162.5	184.4	186.1	170.0	180.1	163.4
80°	343.2	225.1	85.7	93.7	108.3	134.1	160.4	159.8	142.4	133.0	123.7
82.5°	130.7	88.8	61.0	66.0	78.4	102.7	127.1	131.1	113.8	98.4	98.4
85°	50.3	38.0	37.7	39.7	45.7	68.1	96.0	99.4	85.7	72.7	75.0
87.5°	13.0	11.4	14.0	13.3	21.0	36.4	55.0	57.0	52.4	30.3	43.4
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)