

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: P960485

Luminaire Tested: **NAV-SB1C-827-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5055.3 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

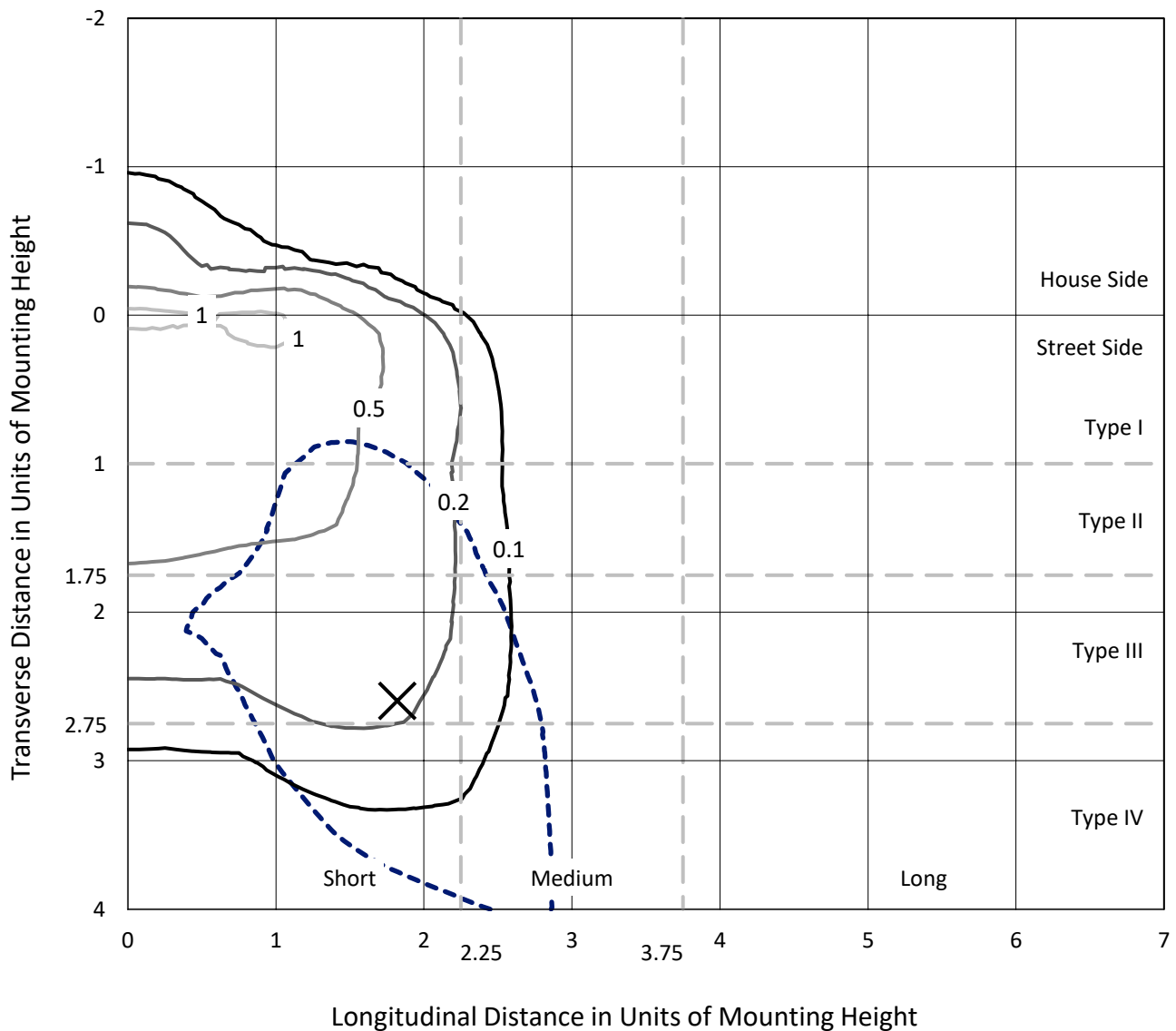
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

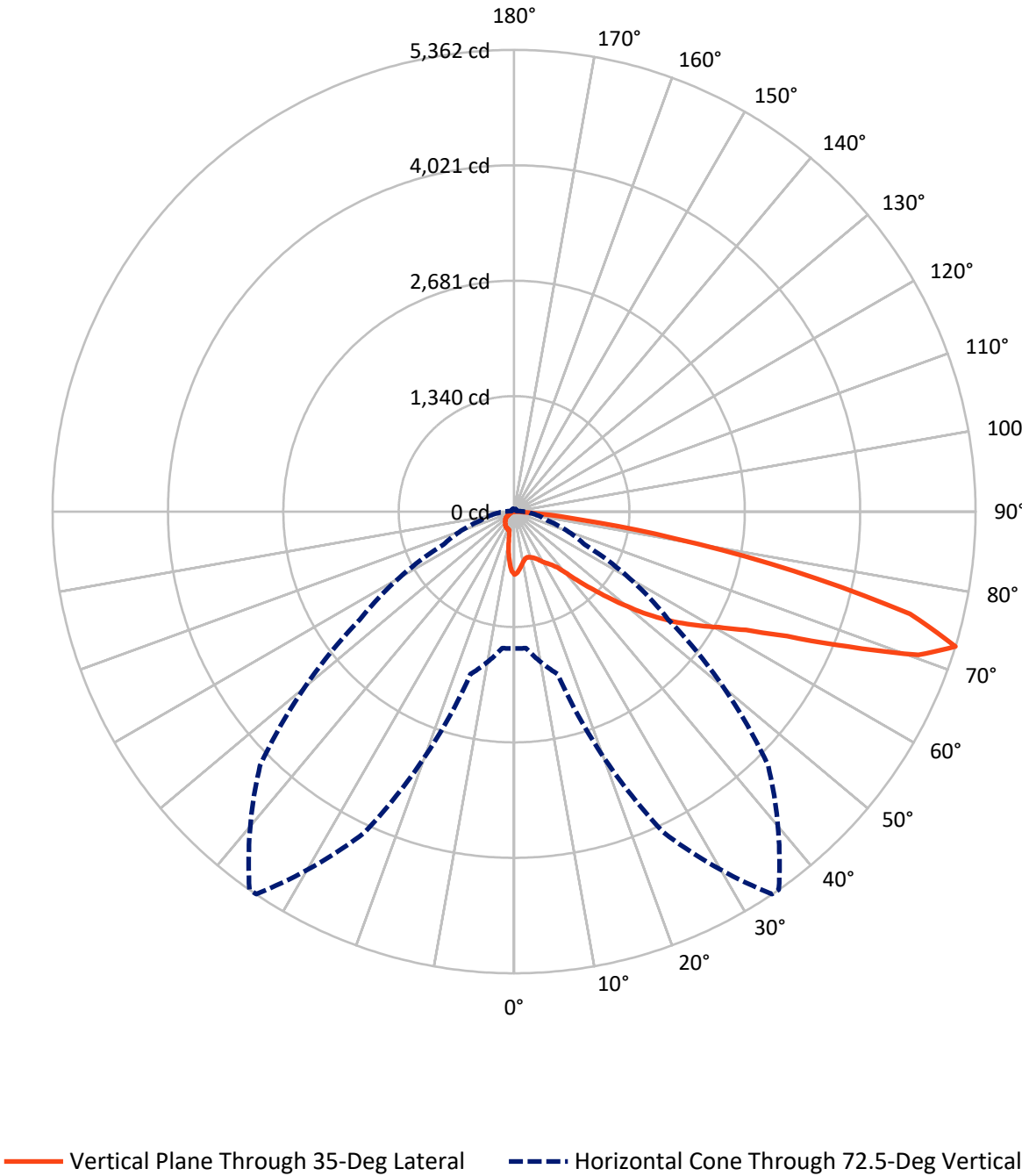
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	569.0	0.0	569.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	4486.4	0.0	4486.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	5055.3	0.0	5055.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	1.2
10°-20°	140.8	2.8
20°-30°	228.8	4.5
30°-40°	381.8	7.6
40°-50°	722.3	14.3
50°-60°	1147.7	22.7
60°-70°	1419.8	28.1
70°-80°	882.6	17.5
80°-90°	71.3	1.4
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°	5055.3	100.0
0°-180°	5055.3	100.0

Coefficient of Utilization



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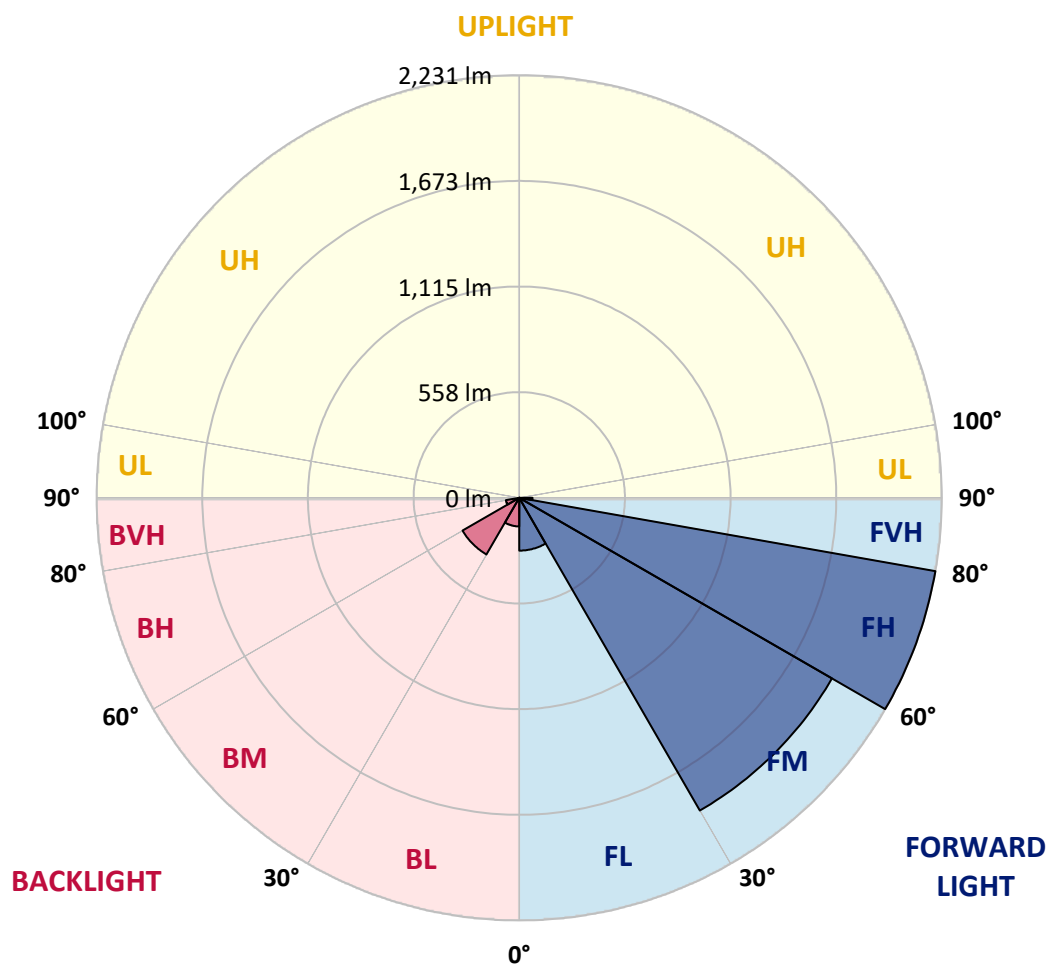
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.7	5.5			
FM	(30°-60°)	1906.4	37.7			
FH	(60°-80°)	2231.0	44.1			G2/5000
FVH	(80°-90°)	70.3	1.4			G1/100
BL	(0°-30°)	151.2	3.0	B1/500		
BM	(30°-60°)	345.4	6.8	B1/1000		
BH	(60°-80°)	71.4	1.4	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7
2.5°	700.1	706.0	707.1	709.0	709.0	711.2	714.9	720.1	728.6	733.1	736.1
5°	645.2	649.7	655.3	659.7	668.2	669.3	683.8	697.8	717.5	732.4	742.7
7.5°	590.1	595.2	602.7	613.4	624.5	627.8	649.7	673.4	704.5	732.4	749.7
10°	551.1	551.6	558.2	569.0	586.7	590.8	617.5	651.2	690.1	727.9	756.3
12.5°	529.3	531.9	534.8	543.0	560.1	562.6	591.2	630.8	675.7	725.3	764.1
15°	529.3	531.2	533.0	537.1	550.8	553.0	578.2	617.9	668.2	726.4	776.7
17.5°	534.8	537.8	536.4	541.2	555.7	557.1	579.3	614.2	667.9	733.4	796.0
20°	548.2	550.4	547.5	550.4	564.9	567.8	590.8	621.2	674.1	745.7	820.1
22.5°	569.3	570.4	563.4	565.6	580.5	584.1	610.8	641.2	689.3	765.3	852.3
25°	596.0	598.2	587.5	590.1	604.1	608.5	639.3	671.2	713.4	792.3	893.5
27.5°	626.8	627.8	618.6	618.2	636.4	642.7	673.8	708.3	745.7	826.4	945.3
30°	661.9	665.2	656.4	654.9	677.8	683.1	713.8	753.8	793.0	877.5	1019.1
32.5°	689.7	692.3	687.2	690.8	714.1	718.2	762.3	818.3	867.6	950.1	1119.4
35°	729.7	731.2	719.3	726.0	752.7	763.0	828.6	908.7	961.2	1041.2	1250.5
37.5°	874.5	874.5	824.2	791.2	816.7	826.0	919.3	1022.3	1076.8	1163.5	1415.7
40°	1074.9	1071.6	997.9	930.5	927.1	945.3	1048.7	1165.7	1226.1	1310.2	1601.7
42.5°	1288.6	1283.5	1183.2	1116.4	1105.4	1111.6	1197.9	1342.3	1403.8	1489.1	1801.7
45°	1478.4	1476.8	1385.0	1295.4	1275.3	1295.4	1384.3	1549.1	1593.2	1682.8	2001.3
47.5°	1637.2	1637.2	1570.2	1511.7	1501.3	1513.1	1636.5	1778.4	1774.3	1889.1	2195.9
50°	1820.2	1818.8	1755.0	1729.9	1740.6	1757.3	1926.9	2019.9	1961.7	2091.7	2369.6
52.5°	1948.4	1957.2	1935.4	1931.3	1986.1	2015.0	2221.8	2256.2	2129.5	2284.0	2499.6
55°	2049.9	2060.2	2085.5	2114.0	2219.5	2257.4	2507.4	2480.3	2269.9	2450.7	2574.4
57.5°	2193.6	2178.7	2217.7	2274.0	2444.7	2490.3	2784.0	2691.9	2382.9	2585.9	2582.6
60°	2368.1	2370.3	2377.0	2448.1	2669.6	2728.1	3056.7	2891.8	2455.5	2668.9	2492.2
62.5°	2577.8	2581.1	2594.8	2704.1	2971.5	3026.6	3347.0	3055.5	2488.8	2645.5	2258.8
65°	2563.3	2577.4	2730.3	3104.1	3430.5	3484.9	3686.0	3170.4	2438.5	2432.1	1839.2
67.5°	2335.1	2358.1	2614.1	3582.0	4122.3	4183.1	4095.7	3193.0	2221.0	1891.3	1199.8
70°	2035.9	2044.0	2351.8	4011.6	4923.6	4985.1	4462.4	2944.4	1685.4	1054.9	537.5
72.5°	1589.8	1591.7	1952.8	4111.3	5358.4	5361.8	4174.6	2185.8	906.4	405.3	186.7
75°	1135.7	1124.6	1307.9	3334.1	4714.3	4752.1	3129.6	1025.3	346.3	191.5	93.0
77.5°	609.0	621.2	740.0	1977.3	3256.7	3321.1	1707.6	295.6	176.3	130.4	61.5
80°	188.2	198.5	303.4	905.3	1844.7	1883.5	633.0	131.5	123.0	93.0	40.4
82.5°	59.2	61.5	141.4	380.4	765.7	783.4	183.4	74.4	84.0	61.5	23.7
85°	17.0	17.4	62.9	141.9	189.3	193.0	51.5	28.9	48.2	38.1	12.2
87.5°	1.8	5.9	23.7	23.7	16.7	16.3	5.5	6.3	13.7	4.8	2.3
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°	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7	732.7
2.5°	734.2	734.5	729.7	721.6	712.7	705.3	696.0	688.6	683.4	681.9	684.5
5°	739.3	736.8	723.0	698.2	668.6	643.1	614.5	591.9	577.1	570.8	573.1
7.5°	747.1	739.7	709.7	660.8	604.1	553.8	502.7	463.0	437.9	425.3	427.1
10°	753.8	739.0	687.5	606.7	520.1	443.7	374.8	327.1	300.4	287.8	288.2
12.5°	760.1	738.6	658.6	542.6	425.3	331.9	267.8	244.2	236.7	234.1	233.4
15°	771.9	739.7	622.3	469.3	330.8	250.8	227.4	227.0	228.6	227.8	227.4
17.5°	788.2	740.9	581.2	391.5	255.2	221.1	220.1	223.3	225.6	224.5	224.1
20°	809.3	745.3	537.5	314.5	219.2	213.7	216.3	219.2	221.1	219.2	218.9
22.5°	839.0	753.1	489.6	252.7	207.8	209.3	211.5	214.8	216.7	214.1	213.7
25°	875.2	765.3	442.7	219.7	202.2	204.1	207.5	211.2	213.4	210.7	210.4
27.5°	922.3	784.9	399.3	212.3	196.7	197.8	202.6	208.2	211.2	207.8	207.8
30°	990.5	817.1	361.9	215.6	193.3	190.8	197.4	205.2	208.6	205.6	205.2
32.5°	1080.9	862.7	339.0	220.8	191.9	182.7	188.9	199.0	204.5	202.6	202.6
35°	1199.5	931.9	330.0	226.7	190.8	174.0	178.6	189.3	199.0	200.8	200.8
37.5°	1343.2	1028.3	332.6	229.3	187.5	167.1	169.3	178.6	191.2	197.1	198.5
40°	1506.4	1140.5	347.5	226.7	183.7	161.1	161.5	168.5	179.7	188.5	191.5
42.5°	1675.1	1271.6	374.8	217.1	180.4	155.9	154.9	159.7	167.1	173.3	176.0
45°	1835.4	1406.5	401.9	203.8	176.3	150.8	148.2	150.1	151.5	154.1	155.6
47.5°	1975.4	1501.3	394.1	191.5	170.8	144.8	140.4	139.6	135.2	134.8	134.5
50°	2072.1	1522.0	350.0	179.3	162.6	138.2	131.1	126.7	118.9	115.2	115.6
52.5°	2102.9	1440.2	286.0	167.1	149.2	129.3	119.3	112.2	102.6	99.3	98.9
55°	2062.1	1279.8	228.6	152.2	130.8	117.5	106.3	97.1	89.3	85.2	85.2
57.5°	1962.5	1075.7	180.8	134.8	111.1	104.0	93.0	83.7	77.1	73.0	72.3
60°	1797.2	854.1	143.0	114.1	94.8	89.7	78.2	72.3	66.3	61.5	60.4
62.5°	1546.5	609.7	112.2	90.4	79.2	73.4	66.6	62.2	55.1	48.5	47.5
65°	1206.8	373.0	86.7	66.3	63.8	60.8	56.7	52.6	44.1	37.4	36.3
67.5°	761.2	176.7	61.9	50.0	50.3	48.9	47.0	43.7	37.4	31.5	30.7
70°	335.3	85.6	40.8	38.1	37.4	37.4	38.8	37.8	31.9	26.3	25.2
72.5°	114.1	45.9	30.3	28.9	27.1	26.6	32.6	31.5	25.5	20.4	19.3
75°	59.7	30.7	22.2	20.7	16.3	19.7	25.9	24.5	18.1	13.3	12.2
77.5°	38.8	21.8	15.2	13.3	9.2	12.9	19.3	17.0	10.8	6.7	5.9
80°	24.5	14.5	8.9	6.3	4.4	7.1	10.4	7.4	4.1	1.4	1.1
82.5°	12.9	7.4	3.4	2.3	1.8	2.3	2.6	1.8	0.7	0.0	0.0
85°	5.2	2.6	1.1	0.7	0.4	0.0	0.7	0.4	0.0	0.0	0.0
87.5°	1.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)