

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: P881866

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

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881866
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4362 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

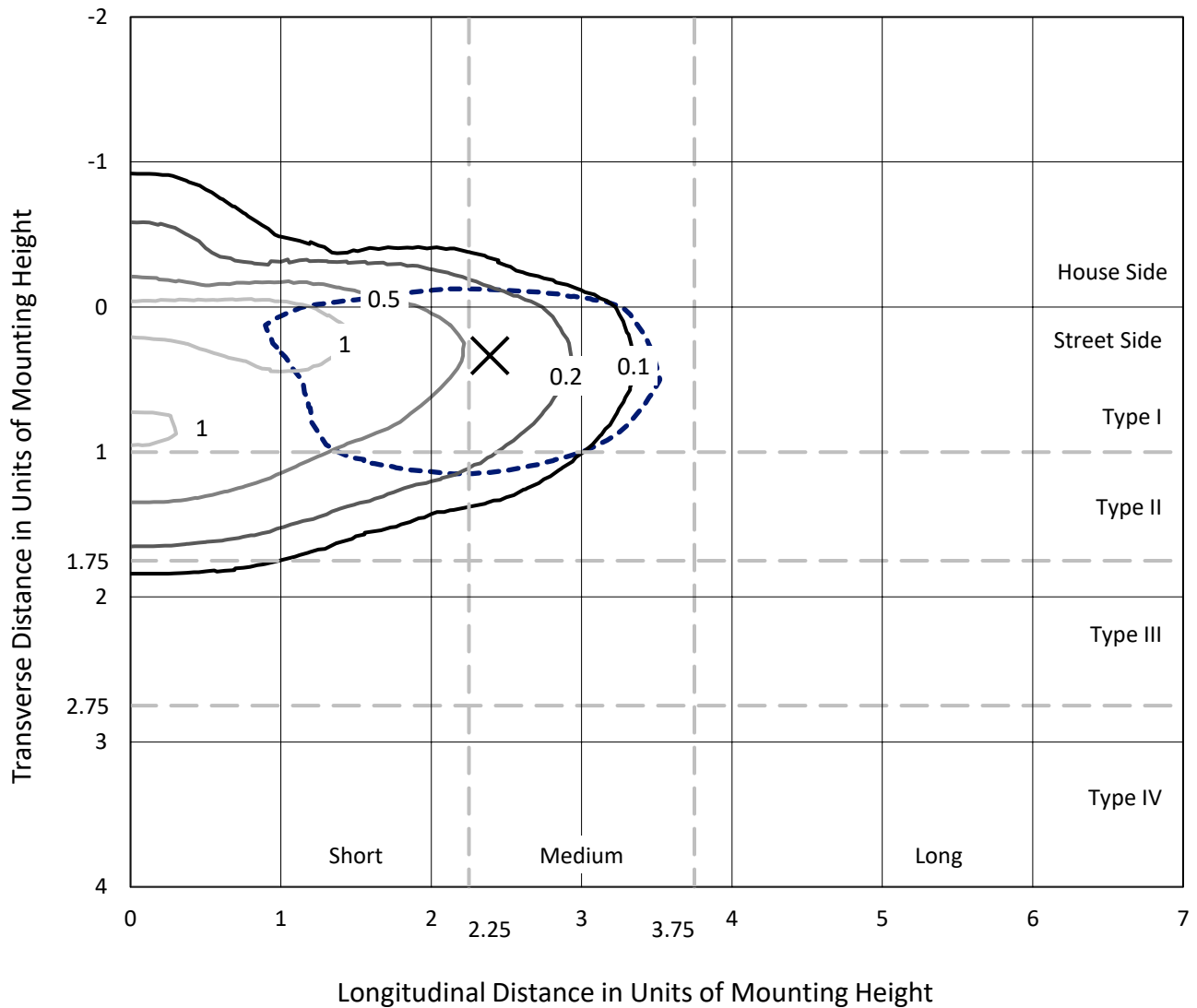
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

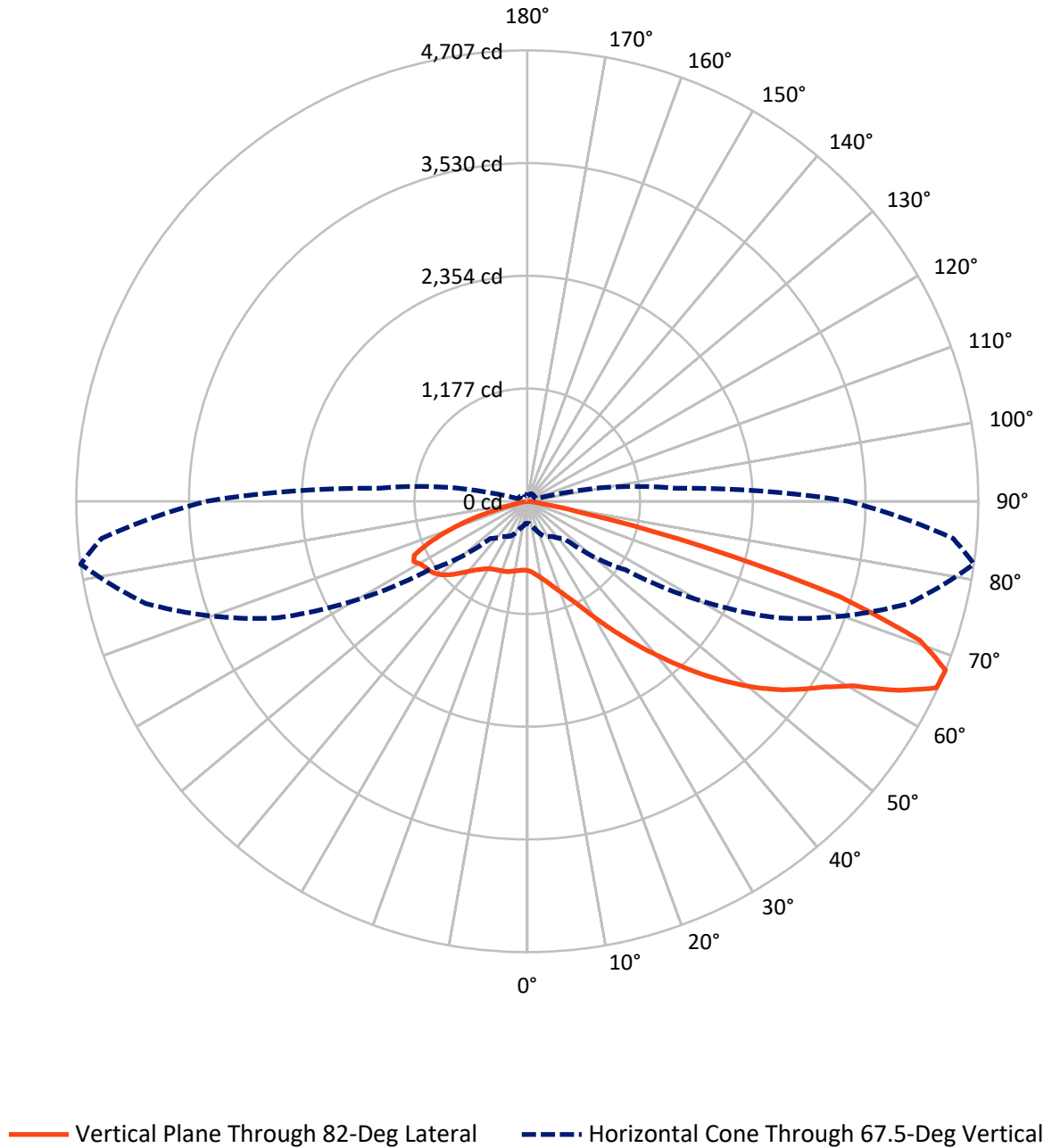
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	790.1	0.0	790.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3571.9	0.0	3571.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	4362.0	0.0	4362.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	1.5
10°-20°	167.3	3.8
20°-30°	268.0	6.1
30°-40°	473.8	10.9
40°-50°	830.2	19.0
50°-60°	1107.3	25.4
60°-70°	1030.8	23.6
70°-80°	395.6	9.1
80°-90°	24.6	0.6
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°	4362.0	100.0
0°-180°	4362.0	100.0

Coefficient of Utilization



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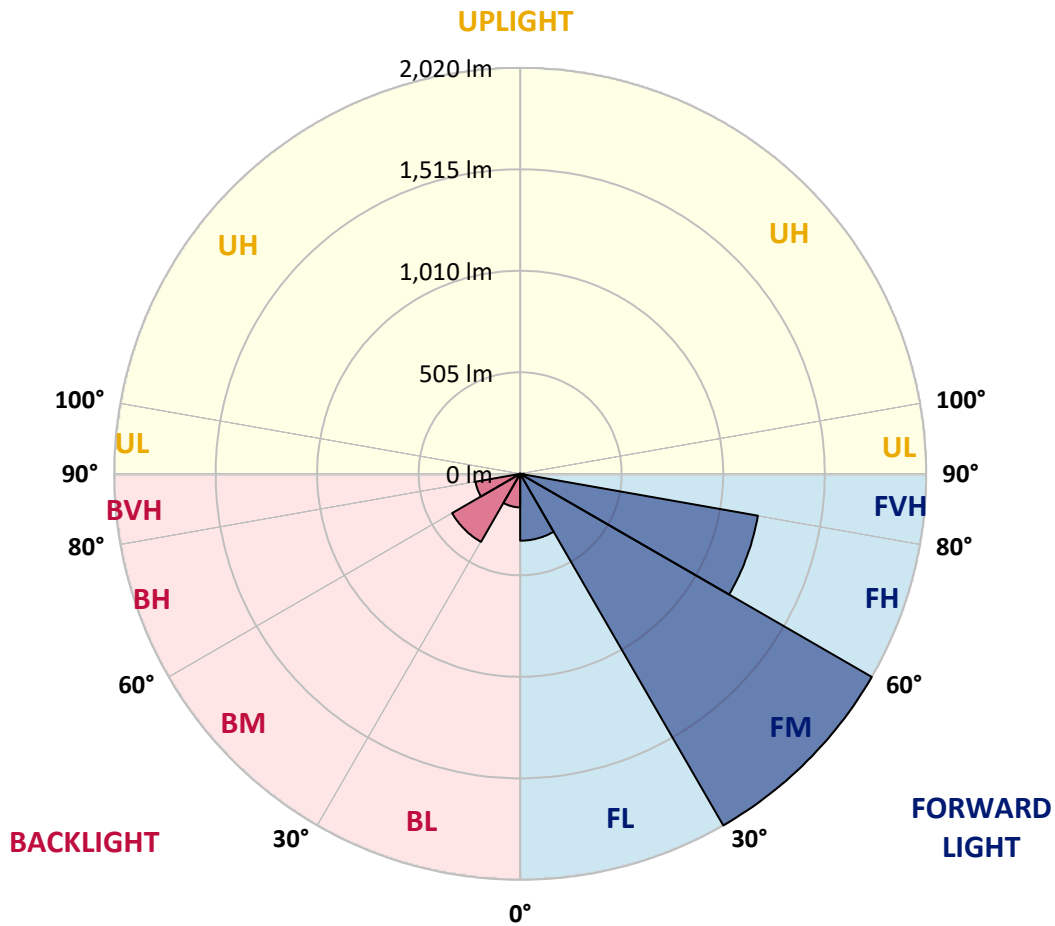
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	332.8	7.6			
FM (30°-60°)	2020.3	46.3			
FH (60°-80°)	1200.9	27.5			G1/1800
FVH (80°-90°)	17.9	0.4			G1/100
BL (0°-30°)	166.9	3.8	B1/500		
BM (30°-60°)	391.0	9.0	B1/1000		
BH (60°-80°)	225.5	5.2	B1/500		G1/500
BVH (80°-90°)	6.7	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6
2.5°	763.8	768.2	765.7	764.4	762.2	759.1	756.6	748.7	740.5	735.2	733.3
5°	779.2	783.6	783.2	784.5	786.1	787.0	786.4	777.6	766.0	756.9	751.5
7.5°	766.0	771.0	775.1	781.4	792.4	804.0	809.6	807.7	795.8	783.2	776.7
10°	728.6	733.9	743.7	758.4	781.7	806.8	827.8	837.6	830.0	816.2	807.1
12.5°	660.1	665.5	684.6	716.7	755.6	799.3	839.5	865.5	867.4	853.6	842.9
15°	583.2	588.5	608.9	649.1	708.5	778.5	845.7	895.1	911.7	899.8	886.9
17.5°	535.5	540.2	555.6	587.9	649.8	737.1	843.5	926.5	964.5	955.0	939.6
20°	521.0	525.1	532.3	554.9	606.4	694.1	829.1	956.0	1021.3	1016.0	998.7
22.5°	536.4	540.2	542.4	552.4	584.8	665.8	810.9	986.1	1087.3	1087.9	1066.8
25°	571.9	575.7	573.1	579.4	593.6	657.0	804.0	1021.6	1170.2	1177.1	1153.2
27.5°	630.3	630.6	624.7	624.3	626.5	670.2	811.2	1059.6	1274.7	1287.6	1258.1
30°	747.4	742.7	719.8	695.0	683.7	709.8	831.3	1104.5	1398.2	1421.1	1384.0
32.5°	928.0	921.1	879.0	819.7	760.0	773.5	867.4	1155.7	1532.6	1574.0	1528.8
35°	1124.0	1122.1	1078.1	989.9	885.6	864.3	926.1	1222.9	1679.2	1745.2	1691.5
37.5°	1306.1	1305.2	1280.1	1176.1	1049.3	990.8	1020.4	1310.9	1836.3	1931.7	1868.3
40°	1472.6	1475.4	1450.3	1357.3	1229.5	1153.2	1148.5	1419.5	2010.9	2134.9	2059.6
42.5°	1616.4	1619.6	1594.1	1525.4	1407.6	1332.8	1305.8	1552.7	2181.4	2353.2	2264.0
45°	1714.1	1733.6	1729.8	1674.8	1590.4	1512.8	1494.9	1719.8	2375.8	2584.7	2480.1
47.5°	1741.7	1759.6	1787.9	1795.4	1743.9	1667.6	1689.0	1921.1	2572.4	2816.4	2697.4
50°	1673.6	1690.2	1749.0	1827.2	1863.0	1839.4	1877.7	2136.8	2773.7	3047.6	2910.6
52.5°	1539.2	1556.1	1630.2	1754.0	1900.0	1974.1	2067.1	2349.4	2968.7	3266.5	3112.6
55°	1344.8	1362.7	1457.8	1597.9	1829.4	2029.7	2225.1	2561.7	3147.4	3463.4	3294.7
57.5°	1080.3	1093.5	1192.5	1388.4	1651.6	1974.5	2341.6	2793.5	3315.8	3656.8	3475.3
60°	704.1	715.7	830.7	1049.3	1357.0	1789.8	2364.8	3052.0	3539.4	3908.4	3718.7
62.5°	468.3	476.1	544.3	704.7	955.7	1435.2	2228.8	3258.3	3867.2	4346.2	4136.1
65°	321.3	329.1	397.3	509.1	617.4	949.4	1837.8	3231.0	4164.3	4693.8	4445.4
67.5°	229.3	235.9	293.6	399.2	446.9	551.5	1245.8	2881.7	4121.6	4707.0	4462.1
70°	164.2	168.0	215.8	310.9	355.2	331.3	692.8	2204.0	3608.8	4346.5	4122.3
72.5°	114.9	116.2	149.8	236.8	286.1	241.8	329.8	1469.5	2729.4	3411.6	3195.8
75°	77.9	79.5	100.8	173.7	229.6	184.7	174.6	788.0	1602.3	1888.4	1692.7
77.5°	47.7	48.4	65.0	118.7	171.8	140.7	112.4	333.8	619.9	608.6	518.8
80°	27.0	27.0	41.5	73.8	117.1	90.8	78.8	142.0	196.3	172.4	152.0
82.5°	15.1	15.4	30.1	45.9	77.6	53.7	43.3	65.6	84.8	75.1	65.3
85°	6.3	6.9	18.5	21.7	37.1	26.7	17.6	27.6	31.4	28.0	20.4
87.5°	0.6	0.9	5.7	4.1	4.4	5.3	2.5	5.3	4.4	4.4	3.1
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°	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6	722.6
2.5°	727.3	722.6	710.7	696.9	678.7	669.9	657.9	649.8	642.9	643.5	637.2
5°	741.5	729.5	702.9	669.6	628.1	598.6	567.2	545.5	527.9	524.2	515.7
7.5°	761.0	742.1	695.3	635.3	565.3	512.2	464.8	434.3	412.7	405.8	398.8
10°	786.1	758.8	685.6	592.3	491.5	424.0	373.1	349.2	334.5	329.4	325.7
12.5°	815.3	777.9	672.7	539.9	415.5	350.5	318.1	306.2	301.5	299.9	299.0
15°	852.0	801.8	653.2	477.7	351.1	305.6	291.8	290.2	290.8	290.2	289.9
17.5°	895.7	827.8	621.5	413.6	307.8	282.6	277.6	278.9	280.4	280.1	279.5
20°	943.4	853.6	581.0	356.8	278.3	266.3	263.5	264.7	266.0	265.4	265.1
22.5°	997.7	881.2	536.1	312.5	258.5	251.2	248.1	248.4	248.4	247.2	246.5
25°	1062.8	911.7	489.0	281.1	243.4	237.7	234.0	232.7	230.8	227.1	226.4
27.5°	1140.3	944.0	443.8	259.1	231.5	226.1	221.7	218.6	213.9	207.6	207.0
30°	1227.6	983.3	405.4	245.3	222.0	216.7	211.7	207.0	200.1	192.2	191.6
32.5°	1330.3	1025.4	377.5	236.2	213.6	207.9	201.9	196.3	188.7	180.9	181.2
35°	1452.8	1076.3	361.2	229.9	207.0	199.4	192.8	186.5	180.9	174.0	173.4
37.5°	1585.7	1130.3	356.1	226.7	202.6	190.9	183.4	179.0	178.4	174.3	174.0
40°	1731.1	1194.3	359.9	224.9	197.9	182.8	174.6	173.7	175.2	168.0	168.3
42.5°	1884.9	1270.3	366.2	222.7	191.3	174.6	166.8	166.8	165.5	155.5	155.5
45°	2051.4	1358.0	372.5	217.3	183.4	166.4	160.5	158.3	152.9	143.2	142.9
47.5°	2219.1	1447.2	377.2	207.6	174.0	159.5	154.2	149.2	141.3	132.5	132.2
50°	2378.3	1527.2	372.2	193.1	163.3	152.9	147.3	140.4	131.9	125.9	125.0
52.5°	2520.6	1596.6	350.8	176.2	152.0	146.0	141.0	133.8	126.9	120.6	120.0
55°	2644.3	1652.9	313.1	160.2	142.0	140.1	135.0	125.9	116.5	111.2	110.5
57.5°	2763.0	1695.6	266.0	147.0	132.8	133.5	125.9	117.8	109.0	103.3	102.7
60°	2921.0	1752.7	218.3	134.7	123.1	125.0	116.8	110.9	99.9	92.6	91.7
62.5°	3173.5	1841.6	173.4	119.7	111.8	112.4	109.0	101.8	88.6	80.1	79.5
65°	3373.9	1808.9	136.6	103.3	98.9	99.9	99.9	92.0	77.9	68.1	67.2
67.5°	3351.3	1548.9	109.0	87.3	86.7	87.3	89.5	82.9	69.1	61.2	60.0
70°	3087.1	1232.0	87.3	72.5	75.4	73.8	80.1	75.7	62.2	54.3	53.4
72.5°	2519.0	887.5	66.6	60.0	57.8	60.3	72.2	68.1	51.8	43.0	42.1
75°	1472.0	473.6	49.6	47.4	41.8	50.2	64.1	58.1	39.6	31.7	30.8
77.5°	479.2	165.2	36.4	34.9	31.1	40.5	54.6	49.0	32.3	25.1	24.2
80°	128.4	49.9	24.8	22.9	20.1	30.1	43.3	38.9	23.2	16.3	16.0
82.5°	51.5	21.0	14.4	12.9	11.0	20.7	34.2	31.4	17.3	10.4	10.4
85°	16.6	6.9	5.3	4.1	5.0	12.9	20.4	21.4	12.2	5.3	4.1
87.5°	2.2	0.9	0.9	1.3	0.9	2.2	6.3	6.0	3.5	0.6	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)