

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: P962368

Luminaire Tested: **NAV-SB2C-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962368
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-SB2C-722-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12917 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

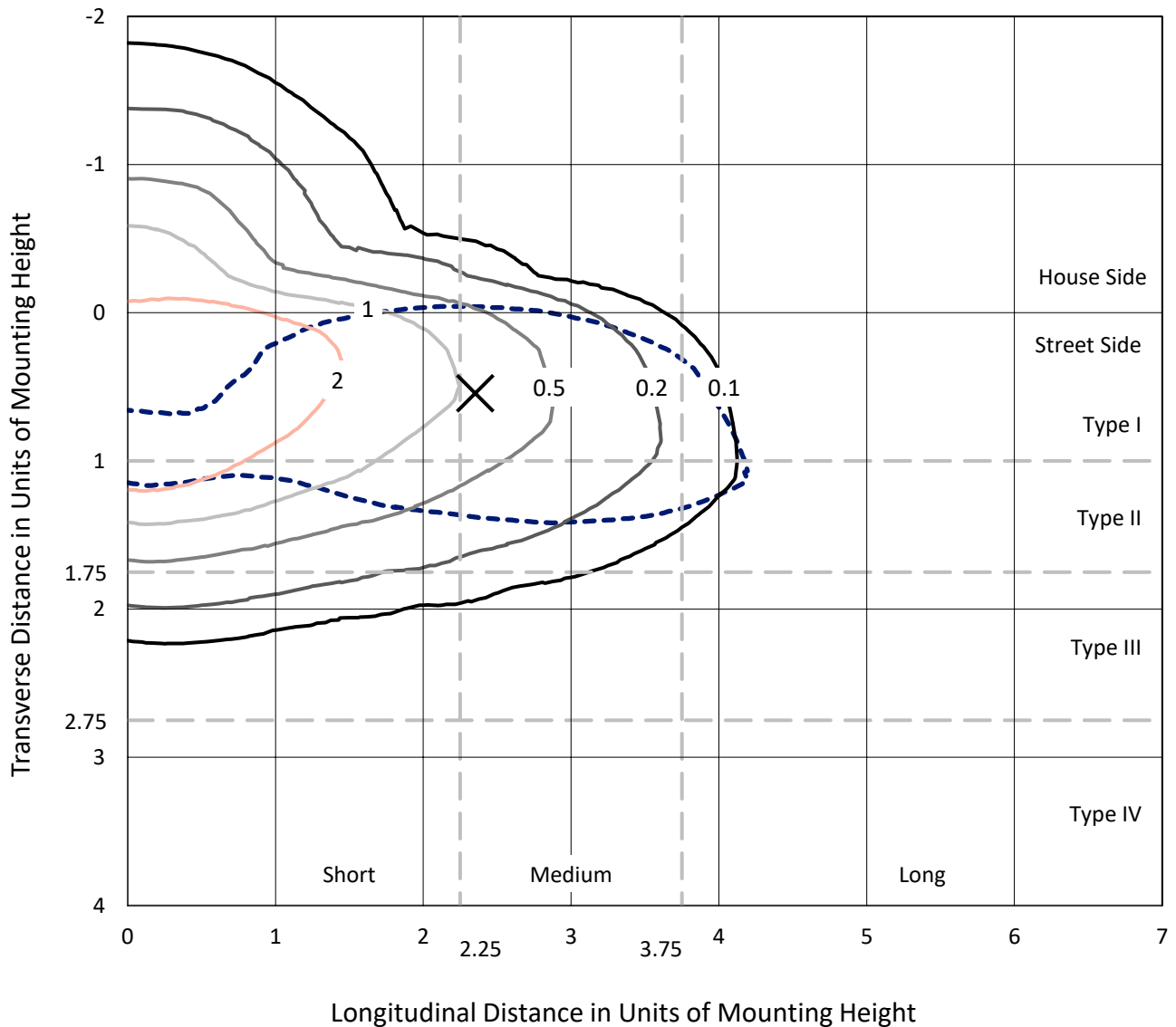
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

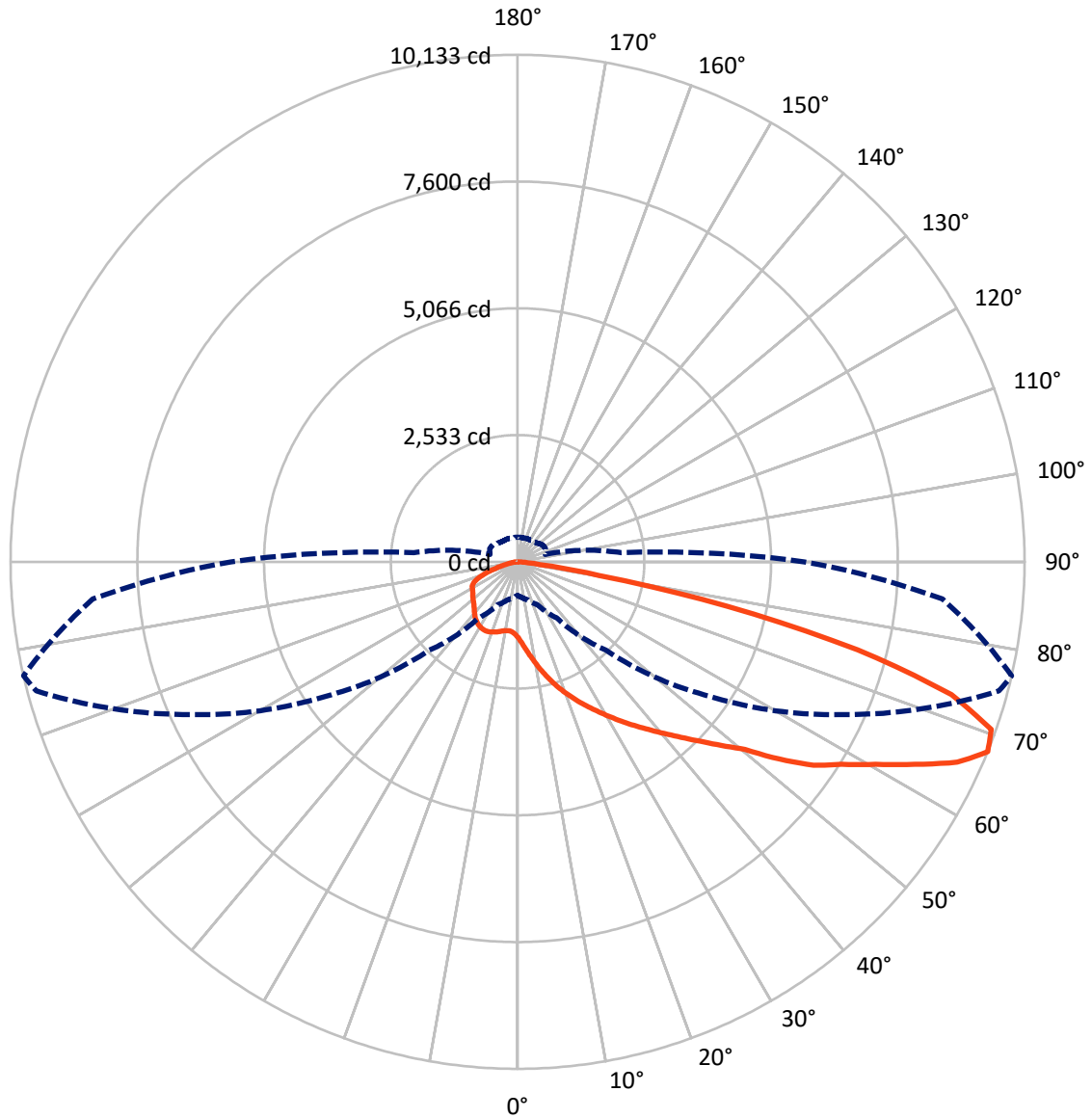
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	2443.4	0.0	2443.4
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	10473.7	0.0	10473.7
	% Fixture	81.1	0.0	81.1
Total	Lumens	12917.0	0.0	12917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.4	1.3
10°-20°	583.6	4.5
20°-30°	1101.9	8.5
30°-40°	1775.2	13.7
40°-50°	2428.1	18.8
50°-60°	2738.9	21.2
60°-70°	2556.5	19.8
70°-80°	1401.4	10.8
80°-90°	169.0	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°	12917.0	100.0
0°-180°	12917.0	100.0

Coefficient of Utilization

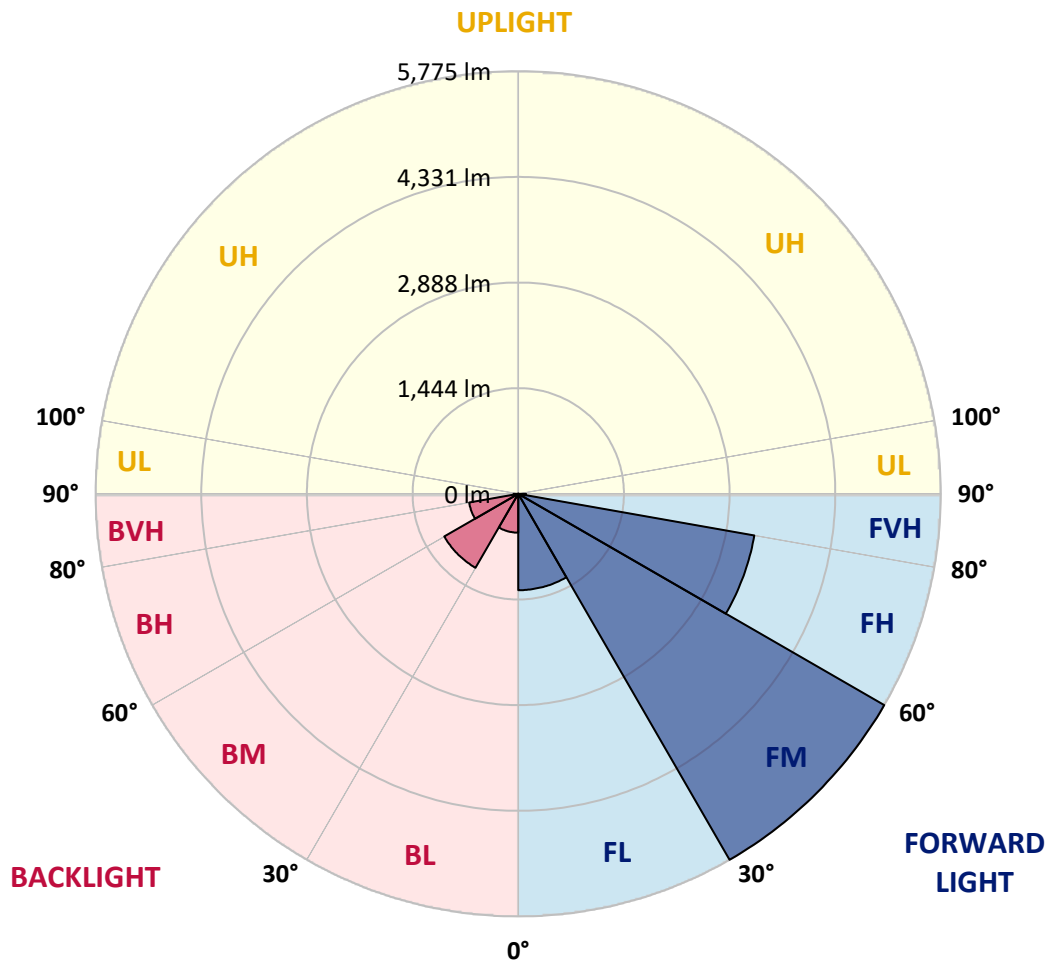


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1316.7	10.2			
FM (30°-60°)	5775.1	44.7			
FH (60°-80°)	3276.1	25.4			G2/5000
FVH (80°-90°)	105.7	0.8			G2/225
BL (0°-30°)	531.2	4.1	B2/1000		
BM (30°-60°)	1167.1	9.0	B2/2500		
BH (60°-80°)	681.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	63.3	0.5			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°	77°	85°
0°	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6
2.5°	1897.6	1911.0	1894.3	1894.3	1838.3	1808.9	1753.0	1710.3	1633.5	1620.2	1569.6
5°	2243.0	2259.7	2236.3	2226.3	2160.3	2099.7	2005.6	1913.0	1776.3	1762.3	1643.0
7.5°	2510.4	2531.8	2511.0	2500.4	2441.8	2373.7	2263.7	2134.4	1941.7	1914.3	1741.6
10°	2728.4	2731.7	2725.1	2729.1	2683.0	2627.1	2514.4	2363.8	2123.0	2085.7	1861.0
12.5°	2851.8	2867.1	2880.5	2904.4	2896.4	2861.8	2760.4	2580.4	2315.1	2267.0	1991.0
15°	2909.8	2936.4	2966.5	3021.8	3066.5	3075.1	2997.8	2813.1	2510.4	2452.4	2122.4
17.5°	2930.5	2955.8	3003.1	3083.2	3179.1	3243.8	3209.2	3039.1	2703.7	2637.1	2260.3
20°	3035.1	3042.5	3071.1	3147.2	3251.2	3358.5	3384.6	3256.5	2895.1	2819.8	2403.0
22.5°	3259.2	3244.5	3252.5	3287.2	3361.9	3465.8	3525.2	3448.5	3091.8	3005.1	2547.0
25°	3629.2	3586.6	3543.9	3503.9	3541.9	3600.5	3667.9	3640.6	3297.8	3187.9	2692.5
27.5°	4096.6	4044.6	3950.7	3819.3	3773.2	3793.9	3824.0	3818.6	3488.6	3377.2	2842.4
30°	4556.7	4496.1	4384.0	4194.0	4072.6	4018.0	3995.2	3980.0	3695.9	3577.2	2993.8
32.5°	4924.1	4876.1	4766.0	4553.4	4377.4	4284.0	4208.6	4154.0	3912.6	3793.9	3153.8
35°	5245.5	5200.8	5074.8	4842.7	4651.3	4552.0	4453.3	4336.7	4138.0	4018.0	3325.8
37.5°	5538.9	5494.2	5321.5	5080.1	4887.4	4818.7	4730.8	4532.8	4364.0	4250.7	3507.9
40°	5724.2	5714.3	5552.8	5279.5	5079.5	5045.5	5016.1	4760.1	4614.8	4509.4	3707.9
42.5°	5771.6	5793.6	5665.6	5440.9	5250.2	5222.8	5291.5	5017.5	4896.1	4795.5	3934.7
45°	5657.6	5720.9	5636.9	5484.2	5371.5	5356.9	5535.5	5298.8	5207.5	5115.5	4208.0
47.5°	5368.8	5476.2	5441.5	5420.2	5404.2	5467.6	5750.2	5597.5	5560.2	5480.2	4520.0
50°	4786.1	4989.5	5050.2	5184.9	5339.5	5553.6	5945.6	5923.6	5972.3	5891.6	4900.1
52.5°	3778.6	4058.6	4410.7	4748.1	5140.8	5524.9	6160.2	6391.7	6597.0	6553.0	5504.1
55°	3119.2	3245.1	3515.9	4134.6	4755.4	5404.2	6257.0	6769.7	7217.1	7177.8	5962.2
57.5°	2612.4	2725.1	2891.8	3408.5	4172.7	5130.1	6317.0	7000.4	7641.9	7637.9	6414.3
60°	2069.0	2188.4	2359.0	2725.1	3491.9	4656.8	6303.6	7263.2	8183.9	8217.3	6965.8
62.5°	1455.6	1586.9	1776.3	2117.6	2796.4	4043.3	6031.6	7453.2	8822.1	8912.7	7629.2
65°	956.8	1043.4	1186.2	1480.9	2083.6	3254.5	5512.2	7477.9	9504.8	9658.2	8252.0
67.5°	670.8	704.1	788.1	948.1	1373.5	2495.8	4684.8	7222.5	9960.2	10132.9	8522.1
70°	523.4	540.1	582.7	646.8	862.8	1678.2	3589.9	6558.4	9862.9	10042.9	8240.0
72.5°	452.0	468.1	484.1	492.1	578.7	1036.2	2431.7	5483.5	8946.1	9068.1	7164.4
75°	410.1	414.1	427.4	424.8	441.4	672.1	1403.5	3995.2	7058.5	7016.4	5288.8
77.5°	344.7	350.0	372.1	368.7	392.1	459.4	728.8	2578.4	4576.0	4290.6	2943.8
80°	292.0	294.7	318.7	314.7	340.7	332.7	372.1	1314.3	1940.9	1644.3	848.8
82.5°	101.4	125.4	243.3	250.7	260.0	201.4	214.7	536.1	592.8	454.1	178.0
85°	49.3	52.7	124.0	176.0	175.4	101.4	104.7	191.4	186.7	146.7	59.3
87.5°	8.0	10.0	14.7	68.7	54.6	26.6	36.0	37.3	38.6	33.3	13.3
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°	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6	1515.6
2.5°	1532.3	1498.9	1428.8	1364.2	1313.5	1264.8	1237.5	1214.2	1200.9	1198.2	1198.2
5°	1573.6	1504.9	1377.6	1270.2	1200.2	1148.2	1120.8	1103.5	1094.8	1089.5	1088.9
7.5°	1632.9	1532.3	1350.8	1228.9	1155.5	1118.2	1104.1	1101.5	1100.8	1101.5	1103.5
10°	1714.9	1577.0	1348.2	1218.8	1157.5	1136.8	1136.2	1136.8	1139.5	1140.2	1140.8
12.5°	1803.6	1622.9	1358.8	1227.5	1182.8	1171.5	1169.5	1168.8	1170.9	1172.2	1172.8
15°	1900.2	1683.6	1376.9	1246.2	1210.8	1198.8	1196.9	1192.9	1192.2	1191.6	1190.8
17.5°	1999.7	1743.6	1396.9	1266.2	1228.9	1212.2	1204.9	1195.6	1188.2	1186.2	1188.2
20°	2100.3	1803.0	1410.9	1276.2	1230.2	1206.8	1192.2	1176.2	1163.5	1156.2	1158.9
22.5°	2207.6	1865.0	1419.5	1273.6	1218.2	1186.2	1159.5	1140.8	1121.6	1108.8	1109.5
25°	2312.4	1919.0	1418.9	1259.5	1194.8	1154.1	1120.2	1096.1	1069.5	1056.2	1056.2
27.5°	2413.1	1967.7	1402.2	1234.8	1161.5	1116.2	1075.5	1046.8	1020.8	1008.2	1007.5
30°	2517.1	2008.3	1376.2	1198.8	1122.2	1072.1	1027.5	1002.9	979.5	967.5	966.8
32.5°	2620.4	2045.7	1339.6	1154.1	1076.9	1028.8	984.8	962.2	948.1	948.1	948.8
35°	2729.8	2071.6	1290.9	1102.2	1028.8	982.8	948.1	934.8	933.5	925.5	923.5
37.5°	2845.1	2088.3	1231.5	1048.9	981.4	938.2	927.5	911.4	898.1	880.8	878.1
40°	2966.5	2105.0	1160.2	993.5	931.5	907.4	902.8	881.5	843.5	800.8	794.8
42.5°	3113.8	2116.3	1086.2	938.2	878.8	870.8	877.5	840.8	780.1	748.1	748.8
45°	3284.5	2135.0	1018.1	883.4	824.8	824.8	852.8	804.8	754.8	734.8	738.1
47.5°	3505.9	2178.3	954.8	823.5	774.8	788.1	798.2	761.5	733.5	708.8	708.1
50°	3825.9	2282.4	889.5	762.8	736.8	763.4	749.5	728.2	695.5	675.5	673.4
52.5°	4223.3	2343.7	831.5	708.1	704.1	730.8	710.7	690.7	666.1	639.4	634.1
55°	4494.0	2355.0	782.8	668.1	682.1	679.5	672.1	654.1	640.7	605.5	606.1
57.5°	4796.8	2377.7	742.8	644.1	668.1	638.8	636.1	620.7	603.4	579.4	571.4
60°	5158.8	2413.1	708.1	634.8	656.1	612.1	598.8	592.8	575.4	563.4	566.7
62.5°	5553.6	2445.0	672.8	636.1	642.1	586.1	566.1	564.1	553.4	549.4	549.4
65°	5822.9	2357.7	628.7	634.8	620.1	559.4	534.1	533.4	524.8	523.4	522.8
67.5°	5728.9	2081.0	569.4	616.1	597.5	532.8	504.7	502.0	490.8	491.4	491.4
70°	5258.1	1686.2	487.4	570.1	569.4	508.7	474.1	465.5	450.1	452.7	455.4
72.5°	4375.3	1249.6	377.4	493.4	524.8	486.8	438.7	424.8	405.4	408.1	407.4
75°	3159.9	849.4	274.7	375.4	456.7	460.7	404.1	380.1	356.7	360.7	362.0
77.5°	1616.9	481.4	202.0	258.7	358.7	418.7	372.7	340.7	335.4	372.7	367.4
80°	527.5	241.4	140.0	181.3	235.3	342.8	326.7	290.1	288.7	297.4	255.3
82.5°	157.3	102.0	90.0	119.3	130.0	262.7	282.1	219.4	188.7	198.7	205.4
85°	54.0	49.3	51.4	59.3	62.0	154.1	197.4	145.3	137.4	151.4	149.3
87.5°	12.7	17.3	14.7	13.3	13.3	37.3	76.7	60.7	84.0	56.0	54.0
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)