

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: P960297

Luminaire Tested: **NAV-SB1C-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960297
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7312.3 lumens
Efficiency: N/A
Efficacy: 134.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

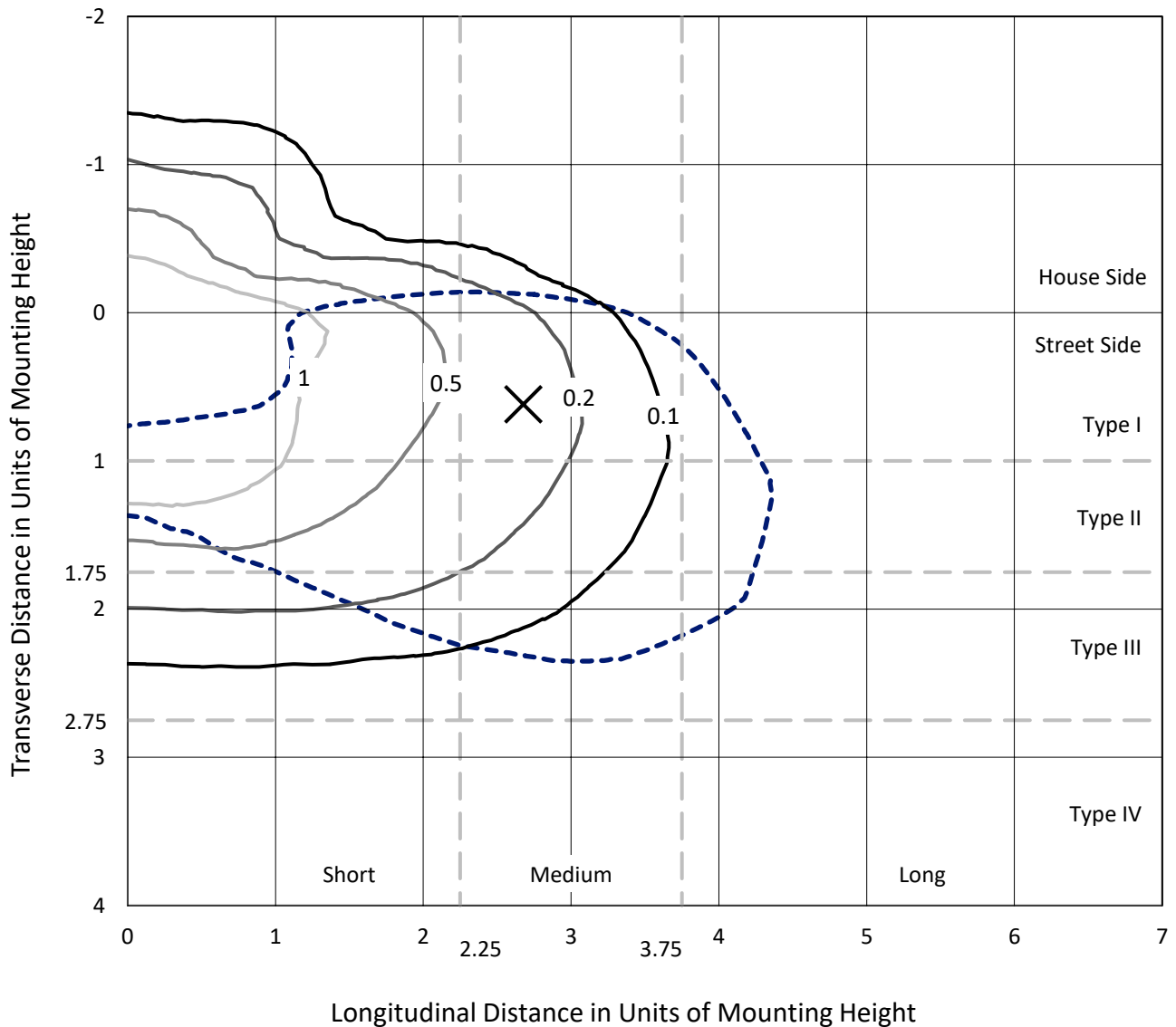
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

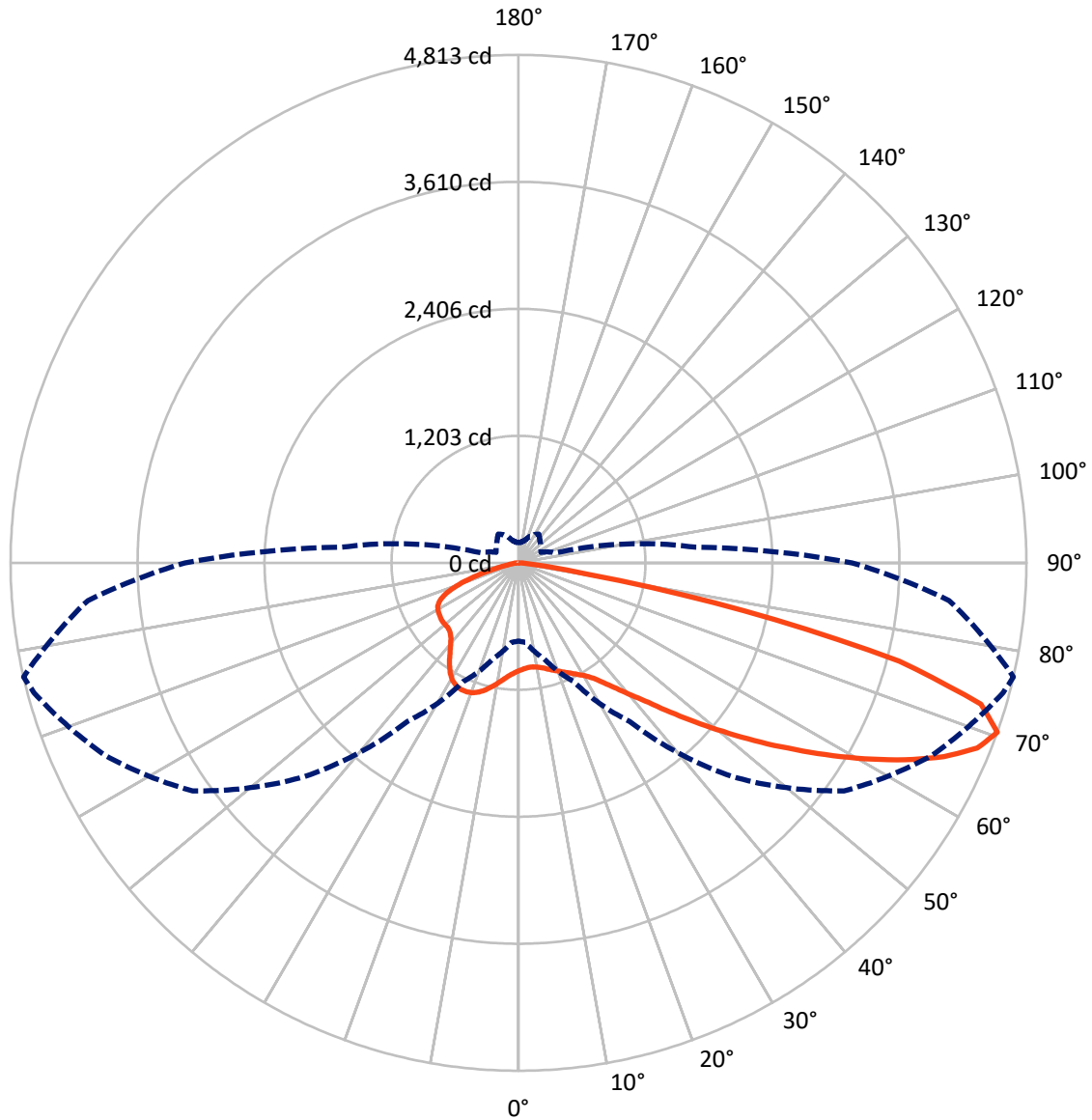
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1601.3	0.0	1601.3
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5711.0	0.0	5711.0
	% Fixture	78.1	0.0	78.1
Total	Lumens	7312.3	0.0	7312.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.3	1.3
10°-20°	280.8	3.8
20°-30°	480.2	6.6
30°-40°	772.2	10.6
40°-50°	1205.6	16.5
50°-60°	1610.4	22.0
60°-70°	1716.5	23.5
70°-80°	1056.6	14.5
80°-90°	92.6	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°	7312.3	100.0
0°-180°	7312.3	100.0

Coefficient of Utilization

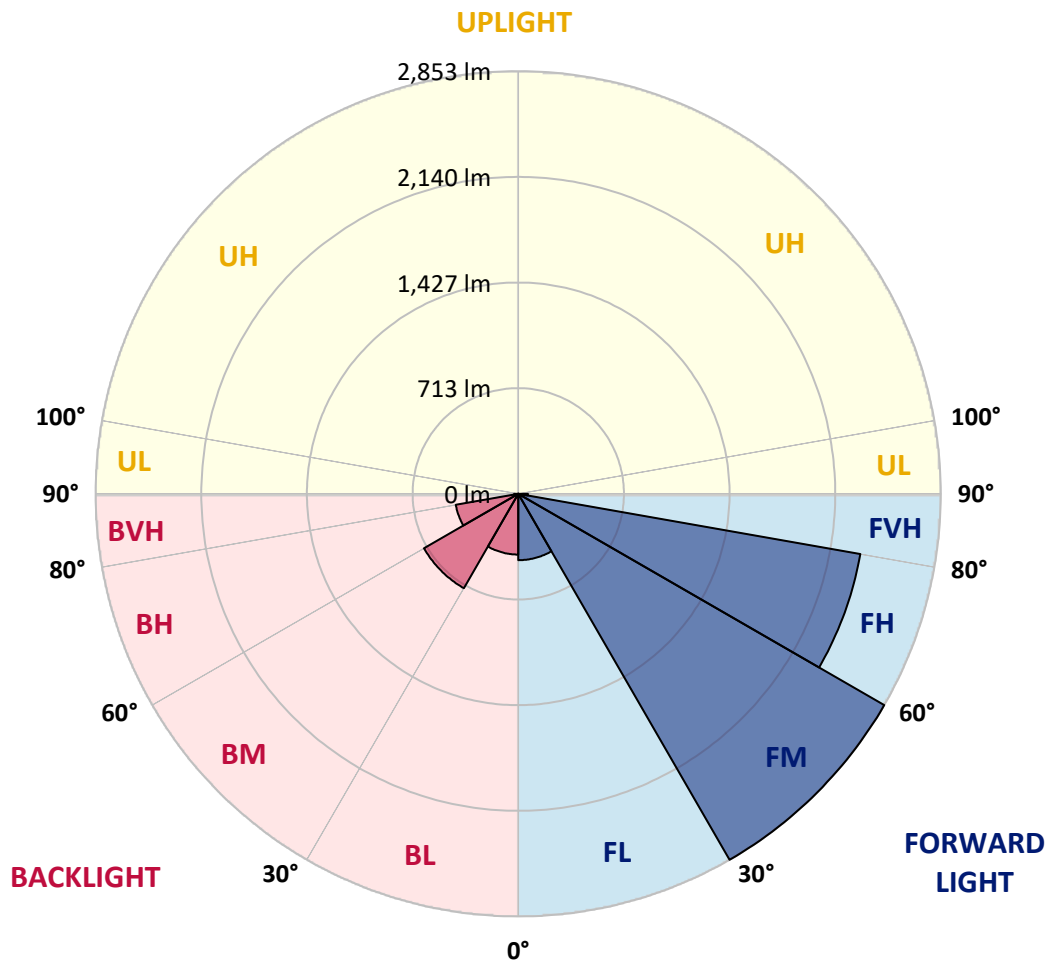


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	448.0	6.1			
FM (30°-60°)	2853.1	39.0			
FH (60°-80°)	2345.2	32.1			G2/5000
FVH (80°-90°)	64.7	0.9			G1/100
BL (0°-30°)	410.3	5.6	B1/500		
BM (30°-60°)	735.2	10.1	B1/1000		
BH (60°-80°)	427.9	5.9	B1/500		G1/500
BVH (80°-90°)	27.8	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2
2.5°	940.3	940.0	944.8	946.4	955.3	961.8	973.7	986.5	1003.0	1004.8	1014.9
5°	886.1	886.1	891.6	897.7	909.3	922.0	940.3	962.5	991.0	995.4	1020.5
7.5°	840.0	843.0	847.9	859.5	873.0	891.3	919.4	950.9	988.3	995.4	1035.9
10°	802.9	806.3	812.3	821.6	841.8	867.4	904.0	944.5	994.7	1005.9	1058.3
12.5°	791.3	794.7	798.1	805.1	823.9	853.8	897.7	947.5	1010.0	1021.3	1089.1
15°	818.3	822.4	819.8	817.9	827.7	855.0	900.7	958.4	1029.1	1045.2	1126.9
17.5°	880.5	881.9	876.0	858.3	856.9	871.5	914.9	973.3	1053.1	1070.7	1165.1
20°	980.8	978.2	965.9	931.0	911.1	908.2	939.2	995.8	1077.8	1096.5	1206.2
22.5°	1117.1	1114.2	1089.5	1034.3	990.1	960.9	974.5	1025.0	1105.6	1126.5	1246.3
25°	1287.2	1283.0	1246.7	1171.8	1103.3	1031.0	1022.4	1063.5	1139.6	1159.1	1288.3
27.5°	1485.6	1482.3	1443.0	1344.1	1245.2	1126.9	1081.9	1108.8	1175.2	1197.3	1335.5
30°	1699.1	1708.9	1639.2	1532.8	1407.7	1251.9	1162.0	1164.7	1221.3	1241.1	1392.8
32.5°	1950.1	1966.9	1883.0	1748.1	1577.4	1387.8	1263.2	1242.6	1288.3	1304.7	1465.0
35°	2198.7	2217.8	2148.1	1999.1	1802.5	1548.2	1368.8	1332.1	1377.4	1395.4	1560.9
37.5°	2413.7	2439.1	2403.2	2273.6	2043.2	1741.5	1506.6	1437.4	1487.2	1509.6	1689.7
40°	2583.3	2622.3	2619.6	2538.7	2327.2	1975.9	1681.5	1567.3	1623.5	1647.8	1845.9
42.5°	2721.2	2754.8	2784.0	2779.9	2623.4	2242.1	1887.1	1736.1	1778.9	1807.0	2021.5
45°	2816.3	2852.2	2915.1	2982.9	2908.3	2527.1	2122.7	1936.5	1975.5	2017.8	2230.9
47.5°	2901.3	2942.1	3023.7	3131.2	3150.3	2813.2	2380.7	2169.8	2205.4	2249.3	2441.0
50°	2908.7	2943.9	3070.5	3222.9	3322.2	3088.1	2657.8	2431.6	2464.9	2511.8	2666.0
52.5°	2727.8	2783.3	3004.3	3220.3	3401.3	3318.0	2933.0	2703.8	2741.4	2797.5	2899.0
55°	2117.4	2198.7	2809.8	3120.0	3373.2	3466.8	3194.8	2993.4	3041.3	3100.1	3133.4
57.5°	1823.8	1859.4	2230.5	2937.2	3245.0	3505.3	3415.8	3285.8	3363.0	3427.4	3381.4
60°	1639.2	1668.8	1888.3	2653.0	3076.5	3444.3	3586.6	3558.5	3691.8	3768.6	3634.9
62.5°	1441.5	1469.5	1669.1	2215.1	2860.8	3342.8	3694.4	3810.1	4028.9	4112.8	3873.9
65°	1245.2	1269.2	1460.5	1861.3	2586.7	3241.3	3750.3	4027.7	4340.9	4427.7	4072.3
67.5°	1026.5	1046.3	1227.2	1570.3	2253.4	3102.4	3777.9	4198.9	4612.4	4686.9	4170.4
70°	740.8	756.1	943.0	1241.9	1835.1	2863.4	3766.8	4320.3	4753.1	4812.7	4096.3
72.5°	350.1	364.0	583.4	806.3	1296.1	2398.3	3539.4	4224.0	4610.1	4580.5	3642.4
75°	186.9	198.8	335.2	442.3	684.6	1644.1	2896.3	3638.6	3871.2	3727.4	2692.0
77.5°	126.6	135.9	207.5	265.5	312.7	780.4	1861.6	2519.2	2423.8	2186.3	1348.2
80°	100.3	110.1	170.0	179.8	151.3	282.0	769.3	1166.2	837.7	669.9	383.5
82.5°	77.2	88.0	143.1	130.3	82.4	115.7	224.0	368.9	214.6	163.3	92.9
85°	47.2	58.8	112.3	83.1	46.4	52.8	76.1	102.6	65.5	54.6	33.3
87.5°	24.0	33.7	56.9	30.3	21.0	12.4	20.2	20.2	17.2	15.0	8.6
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°	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2	1020.2
2.5°	1023.9	1031.4	1044.1	1056.1	1065.5	1074.4	1083.4	1088.3	1089.8	1095.8	1099.2
5°	1035.9	1049.7	1074.4	1097.7	1112.2	1121.2	1127.6	1131.4	1132.1	1134.0	1137.0
7.5°	1058.0	1080.0	1114.5	1137.8	1148.6	1147.8	1145.2	1135.9	1132.1	1128.7	1129.4
10°	1089.1	1118.3	1160.6	1176.7	1169.9	1152.0	1128.7	1101.4	1088.7	1076.4	1072.6
12.5°	1127.6	1164.7	1206.2	1205.5	1172.2	1126.2	1072.1	1030.2	1003.7	984.5	980.1
15°	1174.4	1217.1	1249.0	1223.5	1150.5	1067.7	988.7	934.0	910.0	889.1	886.8
17.5°	1222.7	1268.4	1283.0	1217.9	1095.8	981.2	891.6	848.6	825.0	813.7	817.1
20°	1270.0	1315.3	1303.3	1185.7	1012.7	883.0	803.3	779.7	774.8	777.5	776.3
22.5°	1319.8	1360.2	1307.4	1123.5	906.7	782.7	738.9	739.6	750.5	758.4	760.2
25°	1370.6	1398.0	1296.5	1033.6	792.8	708.9	698.0	710.0	731.4	746.7	750.9
27.5°	1419.7	1431.7	1272.9	922.4	695.1	656.1	657.9	682.8	714.9	736.3	741.5
30°	1475.2	1461.6	1227.6	797.3	627.3	610.8	626.6	655.4	687.6	706.6	711.1
32.5°	1537.7	1487.5	1155.7	681.6	579.3	574.5	600.3	619.1	633.2	638.9	641.9
35°	1615.6	1523.9	1063.5	600.3	536.3	547.9	572.6	563.2	557.6	554.6	557.6
37.5°	1716.7	1572.9	955.7	547.6	501.4	528.8	538.9	509.7	487.6	476.7	479.4
40°	1838.4	1644.8	852.0	506.7	479.4	512.3	494.7	459.5	431.4	416.0	417.2
42.5°	1973.6	1720.1	764.8	476.0	467.0	498.9	462.2	420.1	374.8	370.0	374.8
45°	2115.6	1797.6	705.2	452.4	461.0	487.2	443.4	375.7	343.4	363.3	373.7
47.5°	2257.5	1868.8	669.2	434.8	458.0	474.2	426.9	350.9	328.1	356.9	370.3
50°	2415.5	1932.4	653.1	422.1	454.7	468.8	402.2	344.5	312.0	331.1	345.3
52.5°	2572.4	1981.8	641.1	409.3	449.8	464.7	390.2	337.0	292.5	293.6	301.5
55°	2729.0	2014.0	628.0	392.5	438.9	455.8	389.1	328.8	277.9	272.6	276.3
57.5°	2896.0	2032.4	611.9	373.7	420.1	433.0	388.0	322.5	273.4	264.8	265.9
60°	3066.1	2059.3	590.9	350.9	395.1	405.6	385.4	320.2	270.8	256.1	257.3
62.5°	3218.5	2068.8	565.9	329.2	362.8	378.6	379.8	318.4	263.6	238.5	238.5
65°	3318.4	2028.3	522.0	304.4	328.1	350.9	368.9	312.0	250.9	225.8	225.8
67.5°	3314.3	1913.0	453.6	272.6	294.4	320.2	353.1	301.1	235.5	210.1	211.3
70°	3160.1	1685.2	366.6	235.5	257.3	287.2	332.9	285.0	217.2	192.9	195.2
72.5°	2710.3	1319.0	266.3	192.1	214.2	253.2	306.7	265.5	198.4	177.5	176.4
75°	1936.1	834.8	180.5	147.6	166.7	214.6	274.1	242.7	181.2	178.2	168.1
77.5°	989.0	398.8	119.5	107.8	116.1	169.2	230.3	216.8	183.9	147.2	131.1
80°	321.6	147.2	75.2	73.4	77.2	112.7	178.2	177.8	139.3	100.0	88.4
82.5°	102.6	63.2	49.1	47.2	45.3	70.8	124.3	140.8	94.0	63.2	62.9
85°	40.8	37.8	28.8	26.5	19.1	33.3	65.2	93.6	70.0	45.7	46.8
87.5°	15.0	15.0	7.9	5.6	4.1	11.3	17.6	28.1	40.1	23.6	23.3
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)