

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: P881879

Luminaire Tested: **NAV-SB1C-727-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P881879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-727-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

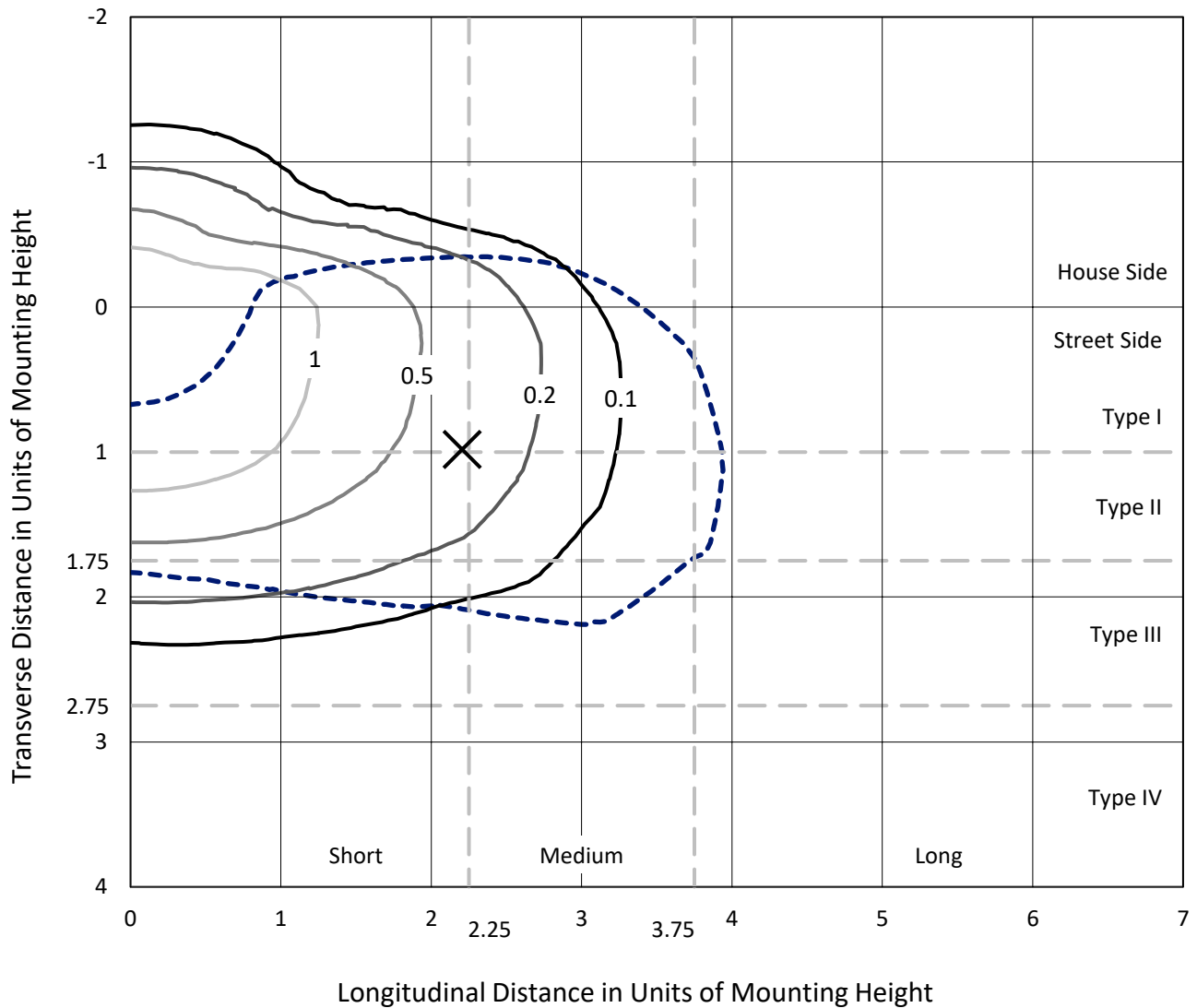
Lumens per Lamp: N/A  
Luminaire Lumens: 6797 lumens  
Efficiency: N/A  
Efficacy: 124.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 54.4  
Input Voltage (V): 120.0  
Input Current (Ain): 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

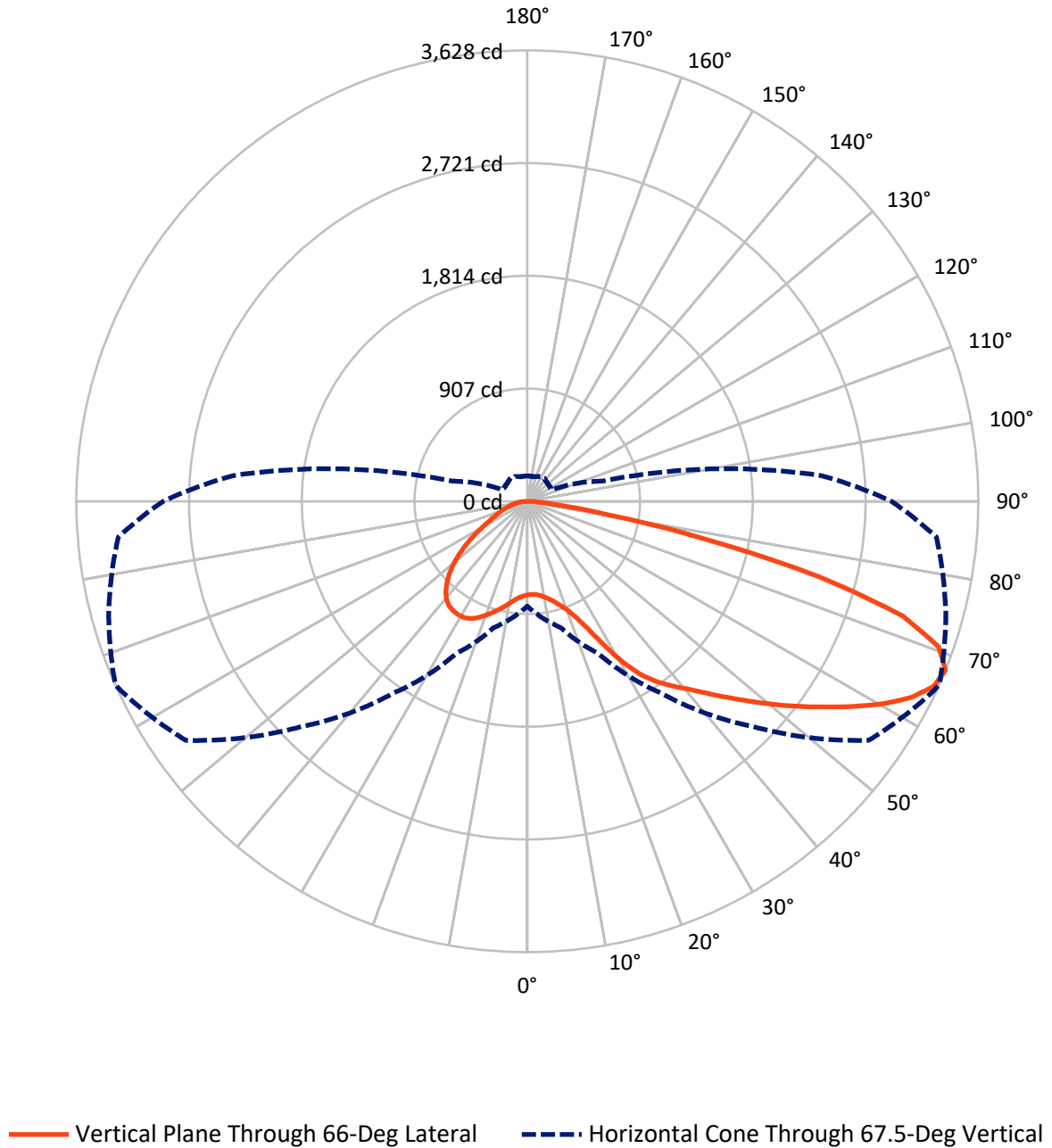
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1690.1	0.0	1690.1
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	5106.9	0.0	5106.9
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	6797.0	0.0	6797.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.7	1.1
10°-20°	246.9	3.6
20°-30°	476.0	7.0
30°-40°	834.6	12.3
40°-50°	1240.7	18.3
50°-60°	1572.7	23.1
60°-70°	1538.9	22.6
70°-80°	734.0	10.8
80°-90°	78.5	1.2
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°	6797.0	100.0
0°-180°	6797.0	100.0

**Coefficient of Utilization**



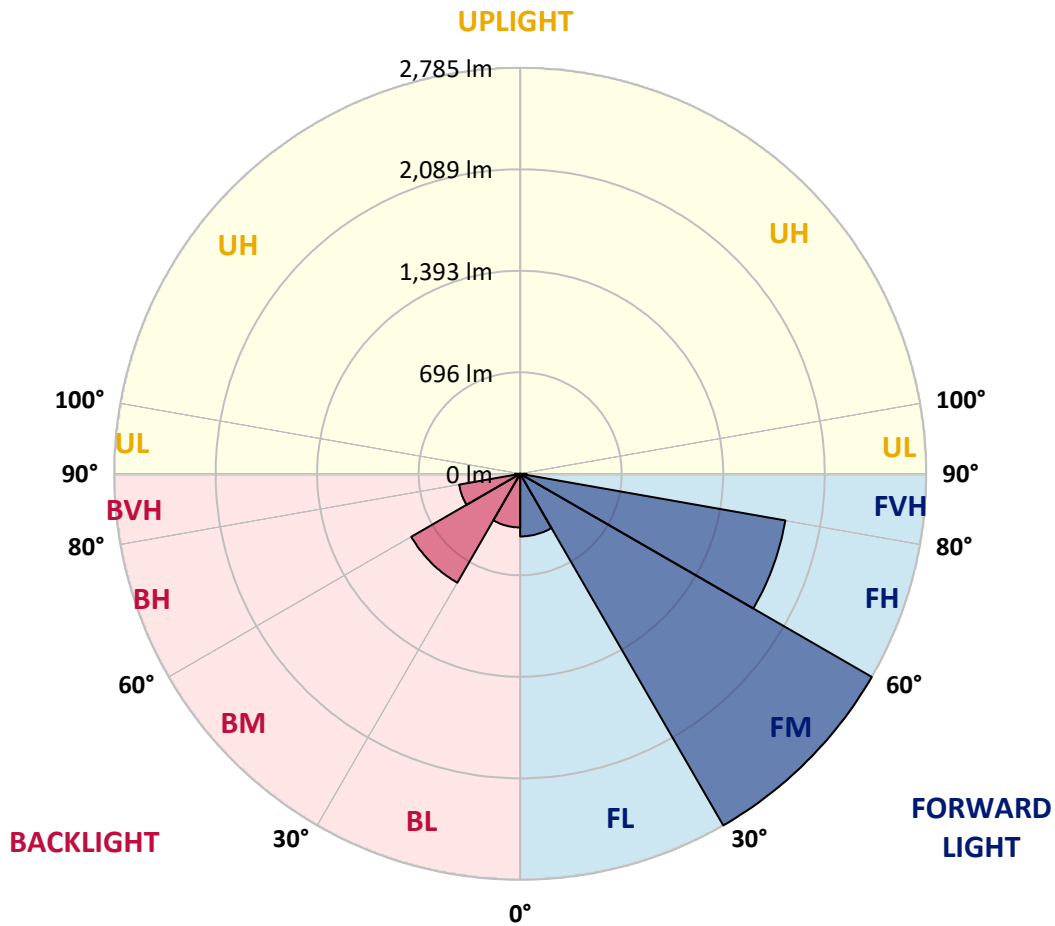
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.5	6.3			
FM (30°-60°)	2785.4	41.0			
FH (60°-80°)	1847.6	27.2			G2/5000
FVH (80°-90°)	44.5	0.7			G1/100
BL (0°-30°)	368.2	5.4	B1/500		
BM (30°-60°)	862.6	12.7	B1/1000		
BH (60°-80°)	425.3	6.3	B1/500		G1/500
BVH (80°-90°)	34.0	0.5			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9
2.5°	746.0	750.3	749.2	747.4	747.1	747.8	748.9	749.9	749.6	751.4	754.2
5°	743.9	748.2	747.8	747.8	749.2	752.1	753.9	755.7	753.9	756.0	759.9
7.5°	745.3	748.5	749.9	751.4	754.9	760.3	764.6	768.5	766.4	768.9	773.9
10°	763.5	766.0	767.4	767.4	769.9	776.0	780.3	787.4	785.7	789.6	796.0
12.5°	796.7	799.2	799.2	797.8	799.6	803.5	804.9	812.8	809.6	816.0	822.4
15°	837.4	842.4	838.5	836.0	836.7	840.7	840.3	846.4	843.2	848.5	854.2
17.5°	882.4	888.9	882.4	882.1	880.7	884.9	885.3	890.7	884.9	888.9	892.8
20°	935.7	944.6	939.2	941.0	937.8	939.6	941.4	949.2	940.3	943.1	942.1
22.5°	1010.6	1021.4	1015.6	1022.4	1020.3	1018.9	1018.5	1032.4	1018.5	1019.6	1009.2
25°	1119.9	1132.8	1122.8	1132.1	1132.1	1136.7	1142.1	1159.9	1136.7	1129.9	1103.1
27.5°	1281.3	1294.2	1274.6	1280.3	1278.5	1289.9	1284.2	1328.5	1303.5	1292.4	1238.5
30°	1475.6	1498.5	1461.3	1459.9	1458.1	1476.3	1484.5	1513.8	1488.5	1477.4	1412.4
32.5°	1685.6	1709.5	1665.2	1652.4	1645.6	1656.7	1649.9	1673.5	1656.0	1638.8	1558.5
35°	1907.7	1931.3	1889.2	1864.2	1837.0	1813.8	1789.5	1795.6	1779.2	1753.1	1669.9
37.5°	2117.7	2160.9	2116.3	2089.5	2039.5	1994.1	1926.3	1898.1	1882.7	1858.8	1774.9
40°	2331.6	2356.3	2322.3	2299.5	2245.2	2174.1	2065.6	2005.9	1985.2	1962.0	1890.9
42.5°	2489.1	2512.7	2494.5	2478.8	2436.3	2353.8	2213.4	2138.8	2108.8	2082.7	2022.4
45°	2614.1	2631.6	2620.2	2625.9	2607.7	2527.7	2366.6	2281.3	2250.2	2218.4	2170.9
47.5°	2664.5	2683.0	2701.2	2735.2	2766.2	2707.3	2531.3	2435.5	2402.7	2370.2	2323.4
50°	2658.7	2677.7	2730.5	2802.7	2899.1	2879.4	2704.8	2599.8	2569.5	2532.3	2489.1
52.5°	2613.0	2634.5	2702.3	2822.3	2975.9	3008.4	2881.6	2769.5	2740.9	2696.6	2653.4
55°	2493.0	2505.9	2607.7	2777.7	2994.1	3098.4	3054.8	2950.2	2921.6	2859.8	2812.7
57.5°	2270.6	2289.1	2437.3	2657.3	2948.4	3159.4	3206.9	3140.1	3112.6	3023.7	2974.4
60°	1980.2	2009.9	2179.5	2455.2	2831.9	3159.1	3345.1	3326.9	3304.1	3185.1	3133.7
62.5°	1651.7	1686.0	1849.2	2169.5	2628.4	3069.4	3431.6	3483.3	3471.5	3334.1	3268.3
65°	1268.5	1292.1	1454.5	1799.9	2311.6	2876.9	3441.6	3590.1	3592.3	3447.3	3338.7
67.5°	844.6	912.4	1053.5	1350.6	1887.4	2562.3	3353.7	3607.6	3628.3	3486.2	3303.3
70°	412.1	501.4	639.6	877.8	1350.6	2079.9	3124.1	3464.0	3510.1	3372.6	3092.6
72.5°	171.1	200.0	275.3	433.2	775.3	1403.5	2662.7	3074.8	3160.1	2988.4	2600.2
75°	115.3	125.0	157.5	222.1	353.2	692.1	1920.2	2292.7	2430.2	2257.0	1844.9
77.5°	88.9	95.0	114.6	155.3	210.0	261.8	1027.8	1381.7	1452.8	1344.9	959.9
80°	70.0	74.6	85.7	113.2	148.9	140.0	350.3	626.0	667.1	559.6	308.6
82.5°	60.7	62.5	61.4	76.8	98.9	81.8	115.0	231.1	255.0	185.0	100.7
85°	43.9	48.9	51.1	47.5	52.5	41.4	47.1	81.8	90.0	80.4	56.8
87.5°	17.9	26.4	32.5	30.7	19.3	11.8	14.6	23.9	27.5	30.0	18.6
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°	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9	753.9
2.5°	754.6	757.1	758.9	761.0	762.4	764.6	768.9	771.4	771.7	773.5	773.2
5°	761.4	764.9	768.9	774.6	781.0	786.4	794.6	800.3	802.4	804.2	803.9
7.5°	776.0	781.0	788.2	798.2	807.4	814.6	824.6	831.4	838.2	840.7	841.0
10°	797.8	804.9	815.3	828.9	838.9	848.2	858.5	864.2	871.0	873.9	875.3
12.5°	824.9	832.4	846.0	864.9	874.2	880.7	884.2	882.8	884.2	886.7	887.4
15°	856.0	864.2	879.6	899.9	906.4	900.7	892.8	885.7	884.6	885.3	887.8
17.5°	892.8	898.9	916.7	933.9	929.2	905.7	888.5	877.1	871.4	869.6	872.1
20°	944.2	944.2	958.9	969.6	938.5	898.5	871.7	853.2	841.4	836.4	835.3
22.5°	1006.7	1001.0	1010.3	1002.8	936.7	878.5	841.4	809.2	791.4	784.2	783.2
25°	1086.0	1079.2	1076.7	1030.3	923.9	846.7	786.4	747.4	731.7	727.8	728.5
27.5°	1205.6	1188.5	1156.0	1045.3	900.3	796.7	722.1	686.0	677.1	677.5	678.5
30°	1364.9	1330.6	1251.0	1047.8	861.7	726.0	656.4	630.7	626.4	628.2	634.2
32.5°	1512.4	1479.9	1348.1	1036.4	802.4	656.7	597.5	580.3	573.9	576.0	578.9
35°	1628.1	1619.2	1438.1	1020.3	729.6	591.7	544.6	530.0	517.5	514.6	516.8
37.5°	1737.4	1733.8	1505.6	997.8	657.5	545.7	502.1	482.8	464.6	454.6	455.0
40°	1857.4	1853.8	1549.9	963.1	593.5	505.7	463.9	438.5	416.0	397.8	399.6
42.5°	1992.4	1971.3	1571.0	913.5	539.2	471.8	432.8	398.5	368.9	352.1	353.2
45°	2139.9	2092.4	1570.6	850.3	493.5	440.7	399.6	351.0	323.5	307.8	307.1
47.5°	2296.3	2208.1	1551.3	780.3	449.3	406.4	348.2	311.1	292.8	283.2	281.1
50°	2457.7	2316.3	1518.5	700.0	403.9	367.5	316.0	290.7	276.8	267.8	264.6
52.5°	2609.5	2414.5	1478.8	608.9	357.8	329.6	301.8	282.1	267.5	257.5	253.2
55°	2750.5	2499.1	1422.8	515.7	320.3	304.3	295.0	278.6	261.8	250.0	245.3
57.5°	2875.9	2554.1	1326.0	428.2	293.6	286.8	287.8	272.5	253.2	243.2	236.8
60°	2980.2	2594.5	1182.8	347.1	271.8	269.6	276.8	261.1	238.6	227.1	222.1
62.5°	3042.6	2593.8	1007.1	284.3	253.2	253.9	262.1	246.8	223.9	213.2	210.0
65°	3037.3	2530.2	814.2	243.2	235.3	236.1	246.8	231.1	211.8	205.3	205.0
67.5°	2929.8	2375.2	624.6	216.4	215.7	218.9	231.4	220.3	204.3	203.6	204.6
70°	2638.7	2053.4	450.0	195.0	195.3	200.0	216.4	213.6	200.3	201.8	201.4
72.5°	2115.9	1565.6	302.1	172.5	172.8	180.3	202.1	208.2	196.4	215.3	218.2
75°	1409.2	976.4	194.3	148.6	148.9	158.6	189.6	197.8	185.7	214.6	216.4
77.5°	677.1	438.9	140.7	125.0	125.0	133.9	163.9	177.1	158.2	166.8	152.8
80°	233.9	165.0	110.7	100.7	98.6	104.6	138.2	153.6	136.4	125.7	117.8
82.5°	92.1	85.7	88.9	78.2	71.1	75.0	107.5	126.8	100.4	90.7	90.4
85°	52.9	55.7	62.9	51.8	41.1	46.1	78.9	91.1	75.7	66.8	68.2
87.5°	14.3	19.6	28.9	26.8	18.6	19.6	37.5	50.4	43.6	33.6	34.6
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)