

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: P882377

Luminaire Tested: **NAV-SB2B-722-U-T2**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882377  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-722-U-T2  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

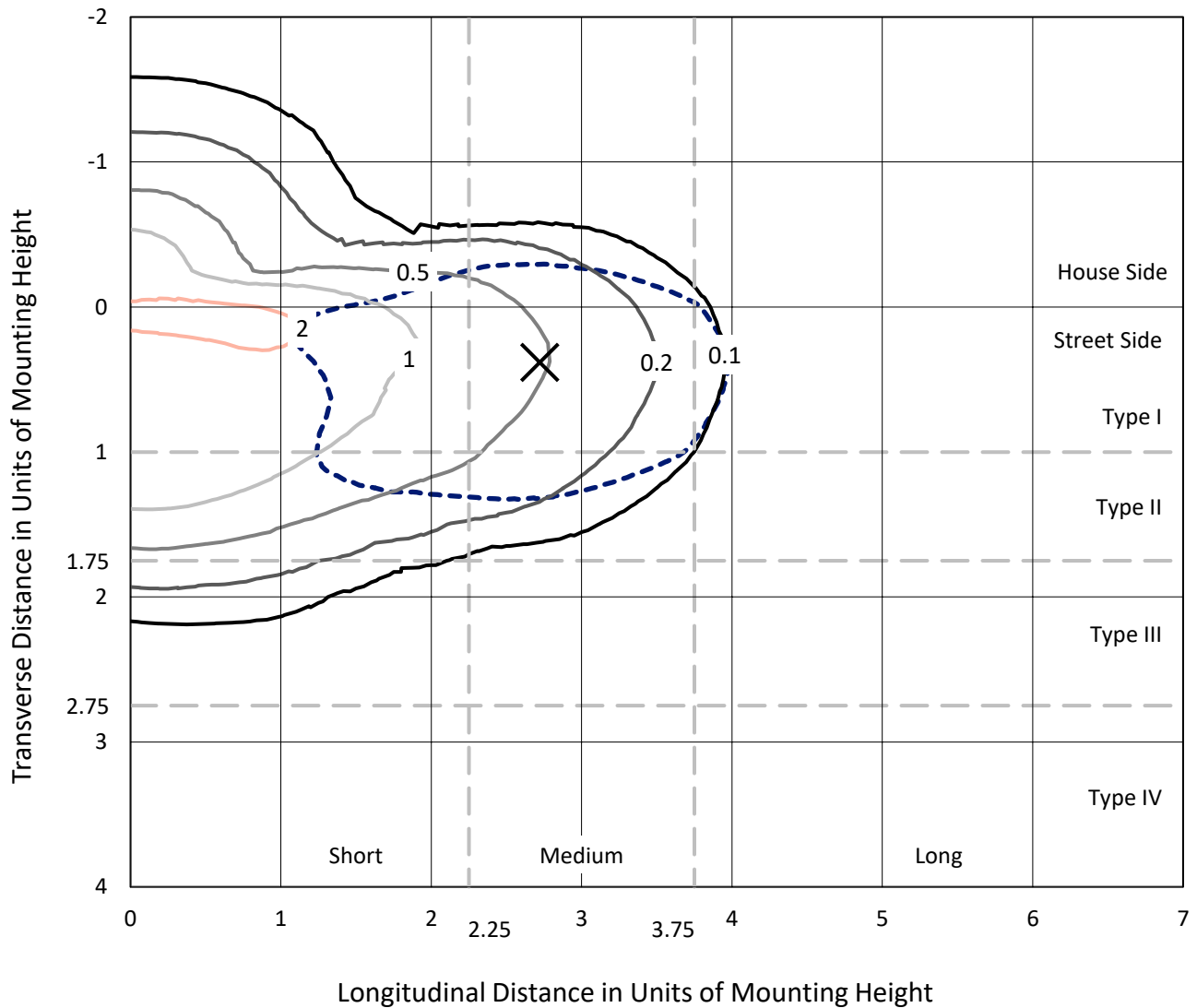
Lumens per Lamp: N/A  
Luminaire Lumens: 9062 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P882377  
 CATALOG NUMBER: NAV-SB2B-722-U-T2

### Iso-Footcandle Lines of Horizontal Illumination

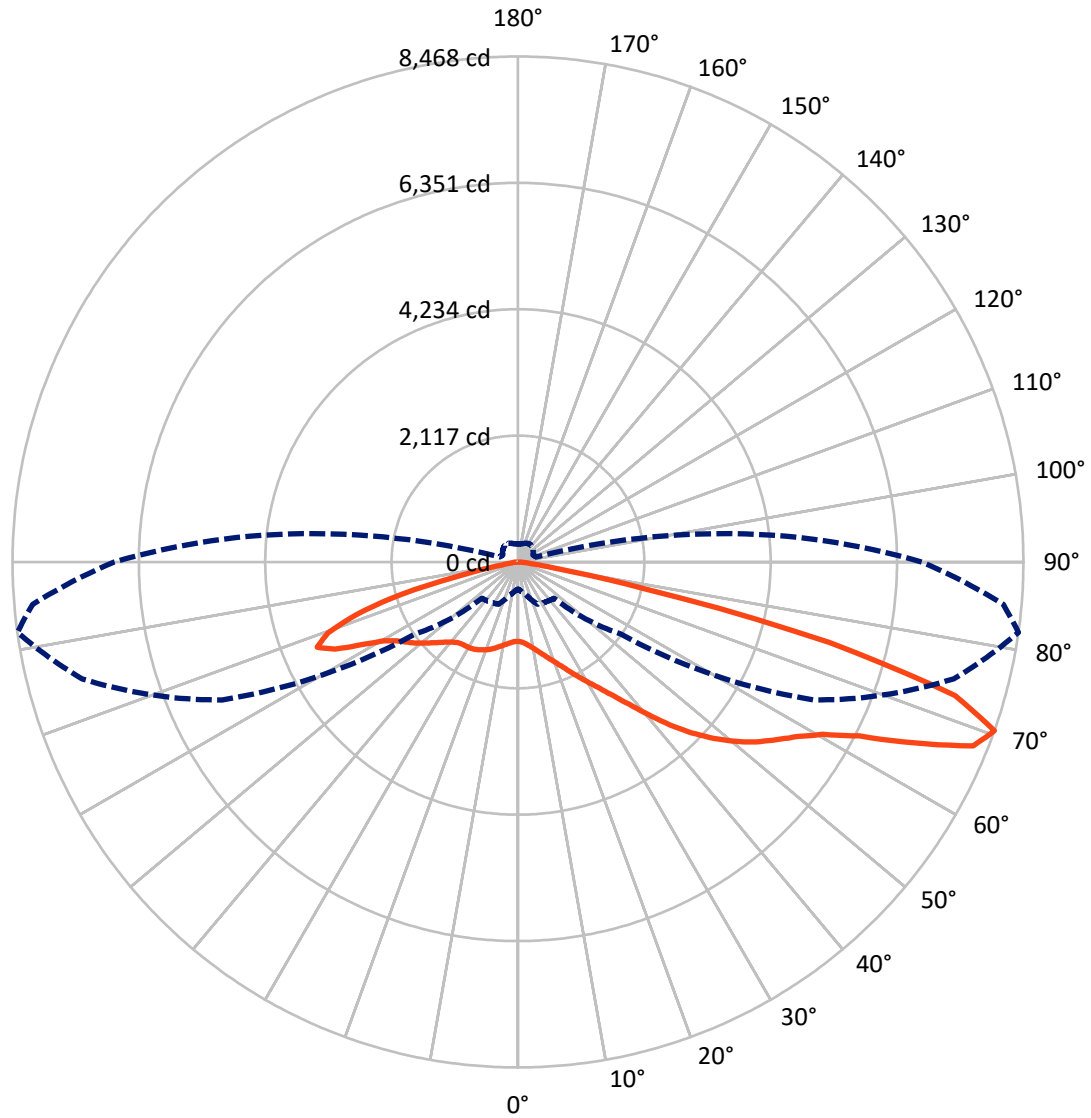
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type II - Medium - N/A

REPORT NUMBER: P882377  
CATALOG NUMBER: NAV-SB2B-722-U-T2

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P882377  
 CATALOG NUMBER: NAV-SB2B-722-U-T2

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2234.0	0.0	2234.0
	% Fixture	24.7	0.0	24.7
<b>Street Side</b>	Lumens	6828.0	0.0	6828.0
	% Fixture	75.3	0.0	75.3
<b>Total</b>	Lumens	9062.0	0.0	9062.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.4	1.4
10°-20°	360.4	4.0
20°-30°	602.9	6.7
30°-40°	941.9	10.4
40°-50°	1500.1	16.6
50°-60°	2087.6	23.0
60°-70°	2183.7	24.1
70°-80°	1141.3	12.6
80°-90°	118.5	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°	9062.0	100.0
0°-180°	9062.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P882377

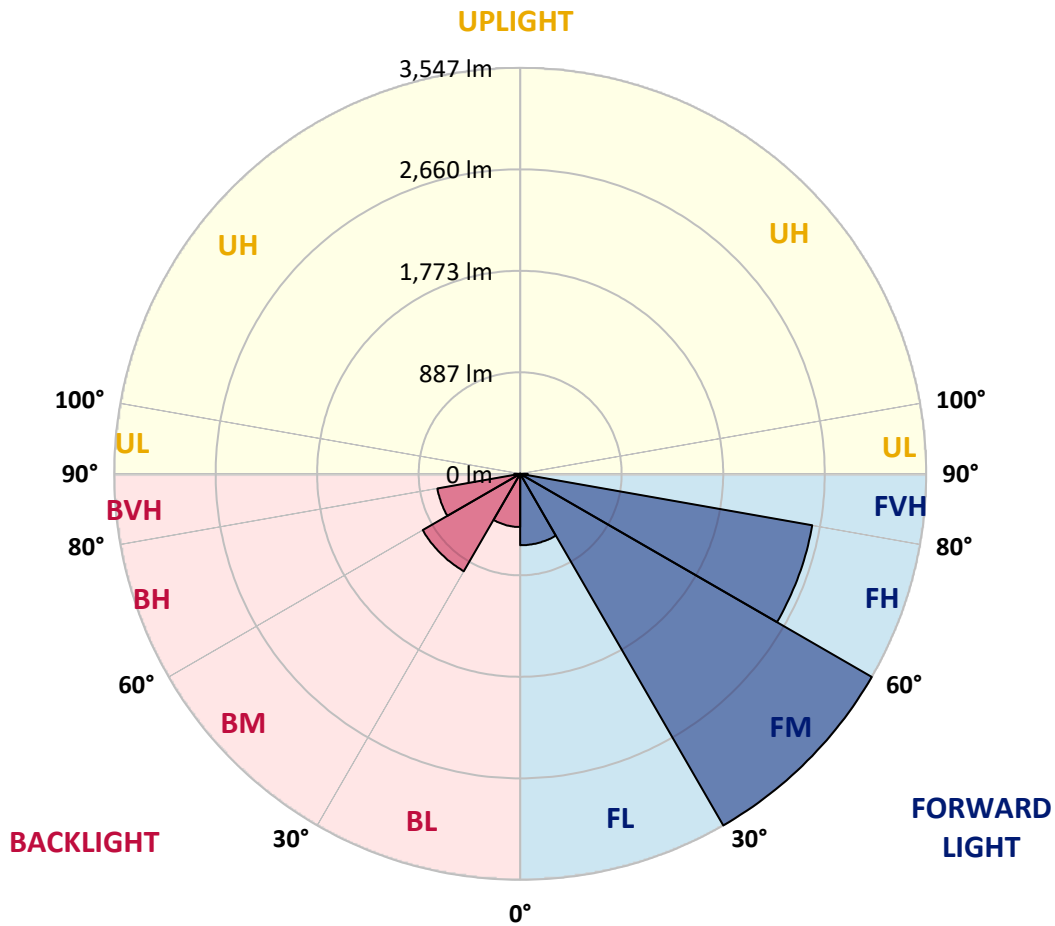
CATALOG NUMBER: NAV-SB2B-722-U-T2

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	624.0	6.9			
FM	(30°-60°)	3546.8	39.1			
FH	(60°-80°)	2590.9	28.6			G2/5000
FVH	(80°-90°)	66.3	0.7			G1/100
BL	(0°-30°)	464.8	5.1	B1/500		
BM	(30°-60°)	982.9	10.8	B1/1000		
BH	(60°-80°)	734.2	8.1	B2/1000		G2/1000
BVH	(80°-90°)	52.2	0.6			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



REPORT NUMBER: P882377

CATALOG NUMBER: NAV-SB2B-722-U-T2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6
2.5°	1360.3	1368.0	1365.6	1363.2	1363.2	1359.9	1359.4	1354.6	1350.7	1344.5	1343.0
5°	1377.6	1385.8	1384.9	1386.8	1393.0	1394.5	1395.9	1393.0	1385.3	1377.6	1374.3
7.5°	1362.3	1371.4	1374.3	1385.8	1405.1	1422.4	1435.4	1440.6	1433.4	1422.4	1417.1
10°	1310.3	1320.4	1330.5	1357.9	1392.1	1432.9	1467.6	1488.2	1486.8	1476.2	1467.1
12.5°	1205.0	1215.6	1237.2	1290.6	1353.1	1425.3	1489.7	1533.0	1547.9	1540.2	1524.3
15°	1120.9	1130.0	1146.4	1201.2	1282.4	1392.1	1497.9	1582.0	1620.0	1615.7	1596.4
17.5°	1118.5	1122.3	1132.4	1158.4	1220.9	1340.1	1489.2	1630.1	1702.7	1702.2	1678.2
20°	1160.8	1162.2	1168.0	1173.3	1208.9	1300.7	1467.1	1670.0	1795.5	1795.5	1769.5
22.5°	1219.4	1218.5	1224.3	1219.4	1236.8	1297.3	1453.1	1705.1	1898.9	1906.6	1873.9
25°	1307.4	1302.6	1301.2	1290.1	1293.5	1328.6	1468.5	1745.0	2021.5	2037.4	1996.5
27.5°	1424.8	1417.1	1411.8	1386.3	1377.6	1393.0	1515.7	1793.1	2158.1	2185.5	2133.6
30°	1577.7	1563.7	1556.0	1511.8	1480.6	1483.0	1586.8	1857.1	2300.9	2345.1	2279.3
32.5°	1786.4	1764.7	1744.1	1671.5	1614.2	1595.5	1678.7	1945.5	2455.7	2526.4	2441.8
35°	2020.1	2002.8	1980.6	1868.6	1780.6	1737.3	1802.7	2069.1	2637.0	2749.0	2638.9
37.5°	2245.1	2230.2	2240.8	2089.8	1976.3	1913.3	1965.3	2235.0	2860.6	3026.0	2886.1
40°	2477.8	2466.3	2467.7	2323.5	2191.3	2120.6	2162.4	2443.2	3116.9	3355.4	3183.3
42.5°	2730.8	2722.1	2693.3	2565.4	2416.8	2350.9	2389.4	2683.7	3392.0	3730.5	3509.3
45°	3014.0	3008.7	2981.8	2835.1	2664.9	2590.8	2642.8	2949.1	3668.4	4083.4	3836.7
47.5°	3258.8	3263.1	3259.7	3136.1	2959.7	2851.0	2913.0	3226.1	3925.7	4415.2	4150.7
50°	3376.6	3399.2	3432.3	3393.9	3284.2	3173.6	3185.7	3493.4	4170.9	4726.3	4451.8
52.5°	3315.0	3357.8	3448.2	3509.8	3552.1	3529.0	3496.8	3758.8	4401.7	5007.1	4736.4
55°	3085.6	3145.8	3295.8	3444.4	3660.3	3828.1	3870.4	4053.1	4626.8	5254.3	5005.7
57.5°	2667.8	2765.4	2900.0	3200.6	3564.1	3972.8	4306.1	4461.4	4865.3	5518.3	5287.5
60°	1951.3	2082.1	2249.4	2696.6	3227.5	3895.4	4676.8	5088.4	5204.3	5860.2	5654.4
62.5°	1248.8	1329.6	1483.4	1904.7	2514.9	3498.7	4790.3	5872.2	5778.9	6420.9	6204.5
65°	855.0	906.9	1047.8	1284.4	1625.8	2604.3	4486.4	6459.8	6691.6	7309.5	7145.0
67.5°	621.3	660.7	780.9	988.2	1059.3	1541.1	3481.4	6432.9	7578.8	8225.0	7969.2
70°	453.0	480.9	581.8	780.9	815.0	857.4	2109.0	5468.3	7559.5	8468.3	8162.0
72.5°	335.6	354.9	422.7	605.9	659.7	578.9	1043.9	3974.3	6495.9	7659.5	7413.8
75°	242.8	257.3	307.3	463.5	528.0	440.9	520.8	2322.5	4531.1	5388.0	5431.3
77.5°	185.6	196.7	229.4	339.5	422.7	330.8	323.1	1068.5	2148.5	2159.0	2280.2
80°	149.1	156.3	174.1	239.0	324.1	247.6	210.6	431.3	679.0	574.6	603.0
82.5°	109.6	121.7	147.1	167.8	231.8	170.7	128.4	217.8	258.2	222.2	224.1
85°	62.5	70.7	89.0	120.2	148.1	104.3	73.6	96.7	120.2	98.6	88.0
87.5°	22.1	28.9	31.3	47.1	64.4	43.3	28.4	27.9	39.4	29.3	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P882377  
 CATALOG NUMBER: NAV-SB2B-722-U-T2

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6
2.5°	1338.2	1335.8	1326.2	1313.2	1299.8	1286.8	1282.4	1273.3	1267.1	1263.7	1267.5
5°	1365.1	1357.5	1334.9	1306.0	1275.7	1243.0	1219.9	1198.8	1183.4	1169.0	1174.7
7.5°	1403.6	1390.2	1351.2	1300.7	1246.9	1192.5	1152.1	1121.4	1100.7	1087.2	1090.1
10°	1448.3	1427.7	1368.0	1292.5	1209.4	1131.5	1083.8	1057.4	1044.4	1037.2	1039.1
12.5°	1499.8	1470.5	1385.3	1273.8	1152.1	1063.2	1030.5	1022.8	1023.3	1023.7	1024.7
15°	1563.3	1522.4	1399.3	1232.9	1077.6	1010.8	1005.0	1017.5	1030.5	1036.7	1036.2
17.5°	1634.9	1577.2	1401.7	1165.6	1004.5	977.1	995.4	1022.3	1042.0	1050.7	1052.6
20°	1711.8	1633.0	1384.4	1070.4	944.4	949.7	982.4	1017.0	1038.6	1049.7	1052.6
22.5°	1799.8	1692.6	1343.0	970.4	895.4	919.9	958.3	992.0	1014.6	1025.7	1028.5
25°	1900.3	1759.4	1278.1	886.2	853.0	886.2	924.7	952.6	970.8	980.9	983.8
27.5°	2011.9	1829.2	1191.6	819.4	816.0	851.6	883.3	905.0	914.6	922.3	925.2
30°	2123.9	1892.6	1086.7	768.9	783.8	817.5	840.1	849.7	852.6	854.0	857.4
32.5°	2245.1	1947.5	976.6	727.1	753.0	784.3	797.7	802.1	788.6	779.5	782.4
35°	2391.8	2006.1	868.9	693.9	722.7	749.7	754.0	750.1	734.3	715.5	716.5
37.5°	2573.1	2079.2	782.8	670.3	694.4	712.1	706.9	705.9	707.3	685.2	686.7
40°	2795.2	2174.4	719.8	652.0	671.3	675.1	660.2	668.4	675.6	641.9	642.9
42.5°	3041.9	2289.4	679.9	639.5	652.0	642.9	619.8	629.0	628.0	583.8	583.3
45°	3293.4	2414.4	666.0	630.4	634.2	616.0	590.5	592.9	572.7	532.8	534.2
47.5°	3543.4	2548.5	674.6	622.7	612.1	591.5	571.7	561.2	531.3	501.5	501.5
50°	3788.7	2689.4	706.4	607.3	581.8	569.8	555.4	536.6	504.9	479.4	477.5
52.5°	4016.1	2831.3	742.0	581.8	543.8	551.1	541.9	520.3	489.0	463.1	463.5
55°	4231.5	2973.1	755.9	546.7	508.3	534.7	529.4	489.5	452.0	430.8	428.9
57.5°	4466.2	3143.8	740.5	502.0	479.4	516.0	495.8	451.5	429.9	414.0	412.6
60°	4791.2	3411.7	707.3	446.7	452.0	488.1	453.4	435.2	411.6	393.8	392.9
62.5°	5331.2	3911.3	654.0	391.9	419.8	446.7	433.3	415.0	390.9	373.6	373.6
65°	6129.5	4605.6	553.5	349.1	383.7	406.3	411.6	393.3	368.3	350.1	351.0
67.5°	6802.7	5041.3	418.8	313.5	346.7	373.6	388.5	370.7	344.3	326.5	327.0
70°	6765.6	4724.9	319.8	278.4	314.0	341.4	360.6	346.7	318.3	301.5	302.9
72.5°	6009.2	3952.6	258.7	242.8	280.8	307.7	330.8	320.2	291.4	275.0	275.0
75°	4414.7	2805.8	206.8	206.8	239.5	272.6	298.1	291.4	265.0	253.4	250.0
77.5°	1860.9	1177.1	162.0	171.7	199.1	234.2	265.9	268.3	245.2	259.7	235.6
80°	494.8	324.6	123.6	135.1	156.3	193.3	231.3	230.3	205.3	191.9	178.4
82.5°	188.5	127.9	88.0	95.2	113.0	148.1	183.2	189.0	164.0	141.9	141.9
85°	72.6	54.8	54.3	57.2	65.9	98.1	138.5	143.3	123.6	104.8	108.2
87.5°	18.8	16.3	20.2	19.2	30.3	52.4	79.3	82.2	75.5	43.8	62.5
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)