

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: P962400

Luminaire Tested: **NAV-SB2C-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-727-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10882.4 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

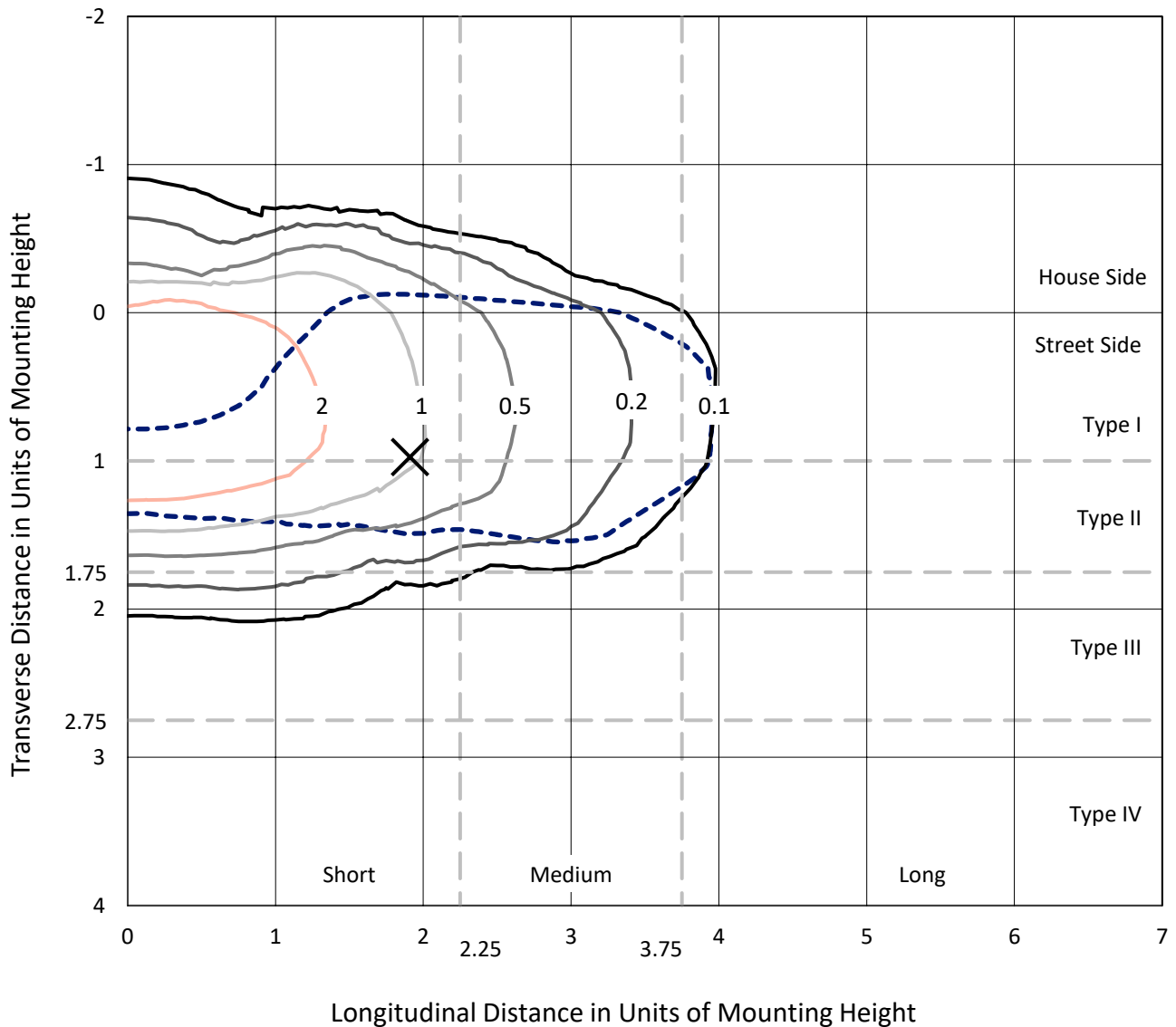
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962400
 CATALOG NUMBER: NAV-SB2C-727-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

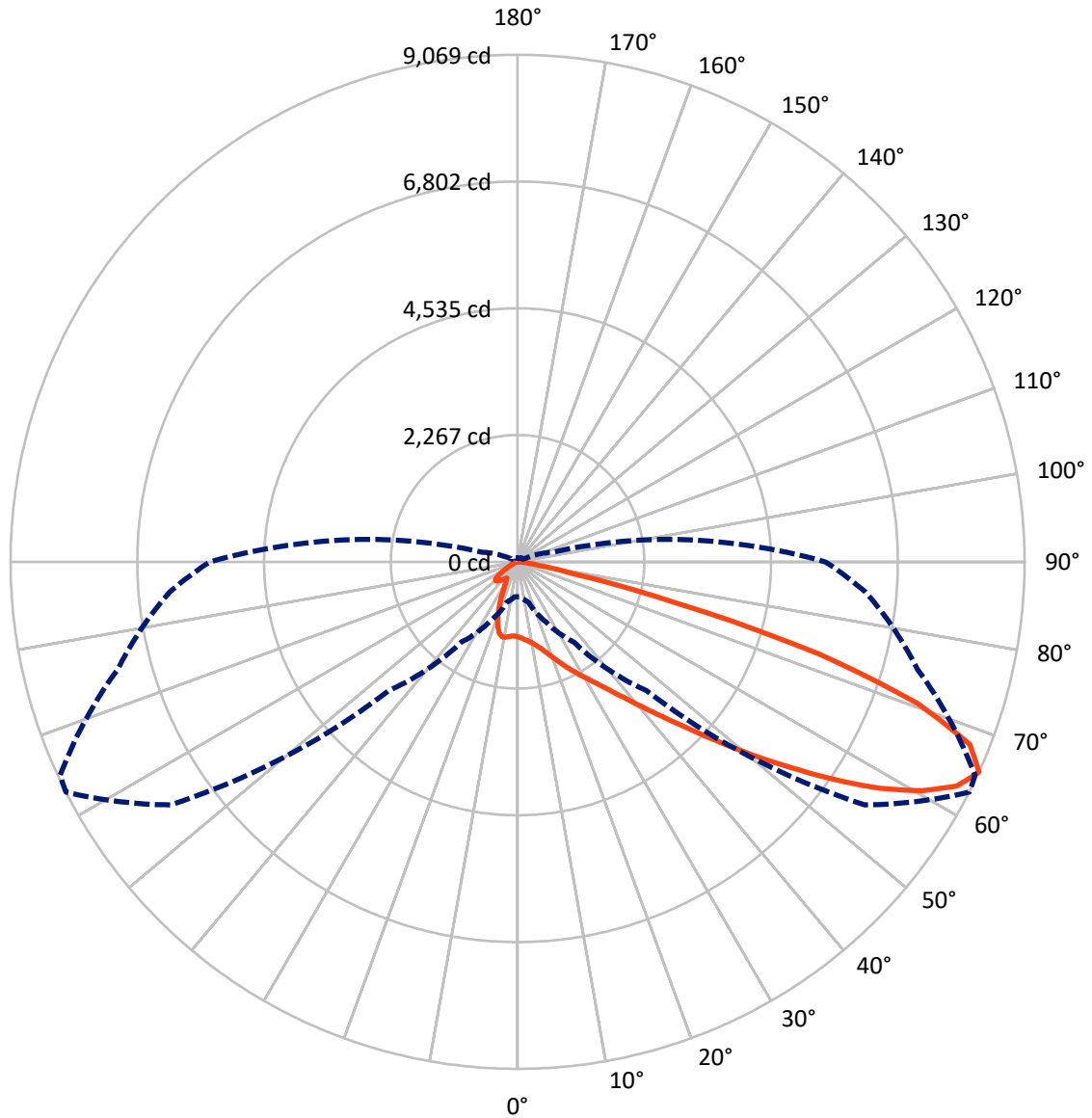
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

REPORT NUMBER: P962400
CATALOG NUMBER: NAV-SB2C-727-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P962400
 CATALOG NUMBER: NAV-SB2C-727-U-T2U-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1599.6	0.0	1599.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	9282.8	0.0	9282.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	10882.4	0.0	10882.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	1.2
10°-20°	351.1	3.2
20°-30°	611.4	5.6
30°-40°	1102.0	10.1
40°-50°	2185.5	20.1
50°-60°	2977.0	27.4
60°-70°	2376.3	21.8
70°-80°	1075.3	9.9
80°-90°	77.3	0.7
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°	10882.4	100.0
0°-180°	10882.4	100.0

Coefficient of Utilization

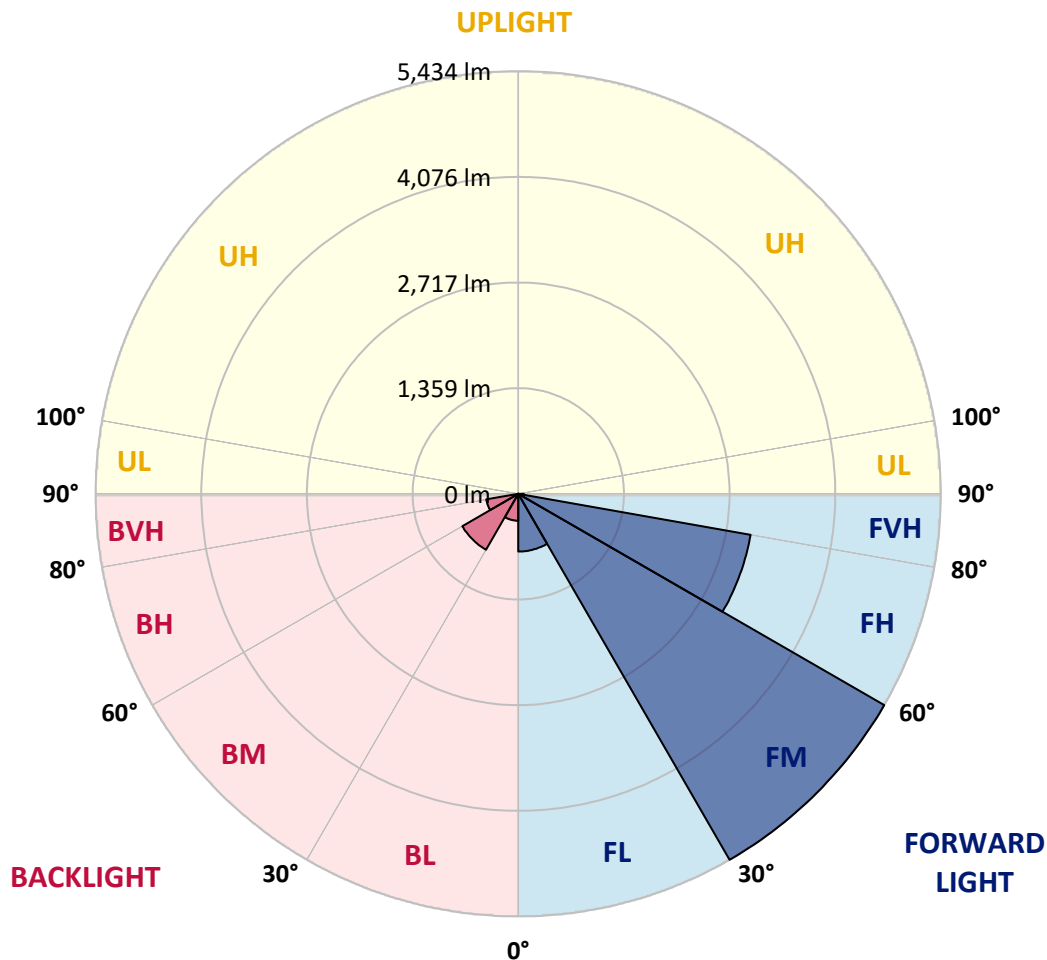


REPORT NUMBER: P962400
 CATALOG NUMBER: NAV-SB2C-727-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.9	6.8			
FM (30°-60°)	5434.4	49.9			
FH (60°-80°)	3034.0	27.9			G2/5000
FVH (80°-90°)	71.6	0.7			G1/100
BL (0°-30°)	346.2	3.2	B1/500		
BM (30°-60°)	830.1	7.6	B1/1000		
BH (60°-80°)	417.6	3.8	B1/500		G1/500
BVH (80°-90°)	5.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short



REPORT NUMBER: P962400
 CATALOG NUMBER: NAV-SB2C-727-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1
2.5°	1374.5	1370.8	1376.1	1373.8	1372.3	1369.3	1367.8	1366.3	1363.4	1361.1	1352.1
5°	1378.3	1376.1	1381.3	1385.8	1390.3	1394.7	1397.0	1399.9	1397.0	1391.0	1382.0
7.5°	1346.8	1345.3	1356.6	1370.0	1390.3	1407.5	1426.2	1436.6	1437.5	1435.2	1425.5
10°	1344.6	1340.8	1352.1	1368.6	1394.7	1425.5	1458.4	1480.8	1483.9	1493.5	1483.1
12.5°	1379.8	1376.1	1391.7	1409.7	1436.6	1468.8	1509.3	1540.8	1545.2	1558.7	1551.2
15°	1438.9	1433.7	1451.6	1474.9	1509.3	1546.0	1588.6	1617.1	1620.8	1637.3	1623.8
17.5°	1507.8	1502.5	1523.6	1548.3	1585.7	1635.8	1685.2	1716.7	1721.2	1731.6	1706.9
20°	1596.1	1589.4	1605.9	1628.3	1668.0	1727.9	1787.1	1832.0	1831.3	1831.3	1790.8
22.5°	1698.7	1688.3	1702.4	1720.5	1757.9	1830.4	1909.1	1962.3	1962.3	1941.2	1874.6
25°	1808.7	1798.3	1814.0	1830.4	1863.4	1945.8	2037.9	2103.7	2106.7	2070.8	1964.5
27.5°	1946.5	1933.0	1945.0	1964.5	1984.0	2067.8	2177.1	2253.5	2255.0	2199.5	2049.8
30°	2211.5	2173.4	2135.9	2115.0	2123.9	2207.0	2323.9	2408.4	2415.9	2339.6	2142.7
32.5°	2696.7	2689.2	2557.4	2385.3	2295.4	2356.8	2487.8	2589.7	2594.1	2496.1	2263.2
35°	3450.6	3441.6	3229.7	2901.8	2609.0	2557.4	2686.9	2807.5	2804.5	2693.7	2419.7
37.5°	4350.5	4342.2	4063.0	3624.3	3150.3	2860.7	2943.7	3070.3	3088.9	2943.7	2621.8
40°	5119.4	5088.6	4912.0	4489.0	3869.1	3363.7	3309.1	3393.0	3412.4	3240.2	2878.6
42.5°	5701.8	5675.6	5585.7	5321.5	4739.0	4107.9	3739.6	3771.8	3793.4	3586.8	3173.6
45°	6003.5	5997.5	6033.5	6008.8	5625.4	5021.3	4354.9	4221.0	4229.2	3970.8	3508.3
47.5°	6046.2	6043.2	6207.2	6439.3	6387.6	6051.4	5144.8	4780.9	4751.8	4404.3	3872.0
50°	5794.6	5788.7	6103.1	6538.1	6896.6	6916.9	6041.7	5412.1	5347.7	4852.9	4251.6
52.5°	4991.3	4989.8	5506.4	6230.4	7075.6	7674.5	6928.1	6105.3	5997.5	5327.4	4652.9
55°	3840.7	3868.3	4460.5	5316.3	6749.2	8039.1	7723.9	6875.0	6709.4	5805.1	5022.8
57.5°	2720.7	2761.0	3346.5	4108.6	5737.0	7823.5	8262.2	7646.1	7467.8	6281.3	5397.9
60°	1461.3	1497.3	2083.5	2993.1	4268.1	7019.4	8545.9	8315.4	8146.9	6733.4	5736.2
62.5°	870.7	882.6	1125.2	1932.3	2886.8	5362.7	8425.4	8825.2	8686.7	7113.0	6030.5
65°	625.1	627.4	749.4	1179.9	1752.6	3258.2	7580.2	9069.3	9026.6	7399.0	6248.3
67.5°	526.3	524.8	575.7	783.8	1194.1	1632.1	5809.6	8724.2	8905.3	7580.2	6371.8
70°	451.4	453.7	513.6	574.2	897.7	923.8	2888.3	7595.9	7982.2	7628.2	6364.3
72.5°	336.1	343.7	399.0	523.3	677.5	635.6	997.2	5632.2	6330.7	7187.1	6034.2
75°	237.3	241.1	280.7	440.2	505.3	462.7	509.1	2911.5	3807.0	5510.1	4939.0
77.5°	182.7	189.4	212.6	307.7	497.8	324.9	311.4	1007.7	1548.3	3328.6	3386.2
80°	98.8	110.8	153.4	222.3	349.6	229.8	154.3	401.3	524.8	1556.5	1305.6
82.5°	50.9	56.9	107.0	160.2	199.2	200.6	76.4	167.0	216.4	480.6	179.0
85°	20.2	24.7	71.9	88.4	102.6	98.8	34.4	67.3	77.9	133.2	54.6
87.5°	4.5	7.5	26.2	20.2	19.5	21.0	8.2	15.7	15.0	15.7	9.7
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: P962400
 CATALOG NUMBER: NAV-SB2C-727-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1	1343.1
2.5°	1351.4	1348.4	1340.1	1331.2	1320.6	1314.7	1310.9	1310.2	1304.9	1301.1	1304.9
5°	1373.8	1370.8	1355.0	1336.4	1316.1	1300.4	1285.5	1272.0	1252.6	1248.8	1247.2
7.5°	1418.7	1410.5	1385.0	1359.6	1321.4	1275.7	1220.4	1156.7	1099.8	1082.6	1074.3
10°	1474.2	1462.9	1430.7	1385.8	1301.1	1176.9	1042.8	918.6	819.8	792.1	781.6
12.5°	1537.0	1527.2	1484.6	1401.5	1216.6	991.3	786.1	631.9	536.1	512.1	505.3
15°	1611.9	1597.7	1538.5	1377.5	1065.4	753.2	539.8	448.4	414.0	409.5	405.0
17.5°	1691.2	1668.0	1586.4	1291.4	861.7	535.3	417.0	390.8	375.9	371.4	369.1
20°	1763.8	1733.9	1614.9	1161.2	643.8	417.0	373.6	356.4	342.9	337.6	334.7
22.5°	1836.5	1793.7	1614.9	983.7	482.9	369.8	342.9	327.2	311.4	304.7	300.9
25°	1912.0	1855.1	1586.4	786.1	388.6	339.2	313.6	296.4	283.0	274.8	271.7
27.5°	1985.4	1906.8	1521.3	598.9	345.8	312.2	286.7	270.3	257.6	251.5	251.5
30°	2055.0	1957.7	1430.0	454.5	318.2	286.0	262.0	247.8	235.0	229.1	229.8
32.5°	2149.4	2022.1	1332.6	372.8	294.2	261.3	239.5	226.1	214.8	210.3	210.3
35°	2280.4	2117.2	1248.8	366.1	274.0	241.1	219.4	206.6	195.4	191.7	191.7
37.5°	2466.0	2270.7	1204.6	411.0	257.6	223.1	202.8	189.4	179.0	175.9	175.2
40°	2695.1	2478.9	1228.6	455.9	246.3	207.4	187.9	174.5	165.4	161.7	160.9
42.5°	2967.0	2735.6	1361.1	490.4	238.8	193.9	173.7	158.7	152.7	151.2	151.2
45°	3279.2	3017.8	1563.9	527.1	226.8	181.2	159.5	148.2	143.7	143.0	142.3
47.5°	3634.0	3327.8	1799.1	572.8	214.8	169.2	148.2	140.7	137.0	135.5	135.5
50°	3985.9	3640.0	2040.9	598.2	205.1	158.0	139.3	133.2	130.3	129.6	129.6
52.5°	4354.2	3961.1	2236.2	574.2	196.9	148.9	131.8	127.3	124.2	123.5	123.5
55°	4705.4	4221.0	2270.0	487.4	180.4	140.0	123.5	121.3	117.6	117.6	116.7
57.5°	5007.7	4351.2	2031.9	357.8	164.0	126.5	115.3	113.1	110.1	109.3	108.5
60°	5285.5	4313.8	1568.5	241.1	146.0	113.1	104.9	103.3	100.3	96.6	95.8
62.5°	5442.0	4149.1	1072.9	157.2	128.0	98.8	92.9	92.0	85.4	77.9	76.4
65°	5501.2	3810.6	669.3	114.6	107.0	84.6	80.2	78.6	68.9	60.7	59.9
67.5°	5449.5	3253.7	337.6	90.6	84.6	70.4	65.9	65.9	59.1	51.7	50.9
70°	5242.9	2439.1	142.3	72.6	65.1	53.9	53.9	56.9	50.1	41.9	41.2
72.5°	4794.4	1641.0	75.6	55.4	48.7	38.2	44.2	46.4	39.7	31.5	31.5
75°	3811.5	1000.9	52.4	41.2	30.6	27.0	33.7	35.2	27.0	21.0	20.2
77.5°	2606.9	574.9	35.2	26.2	19.5	15.7	23.2	21.7	14.2	9.7	10.5
80°	1144.7	239.5	20.2	12.0	7.5	5.9	8.2	5.9	4.5	3.0	3.0
82.5°	134.0	56.2	7.5	4.5	3.0	1.5	0.7	0.0	0.0	0.0	0.0
85°	27.7	6.8	3.8	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.2	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)