

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: P883060

Luminaire Tested: **NAV-SB3B-722-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-722-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10191 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

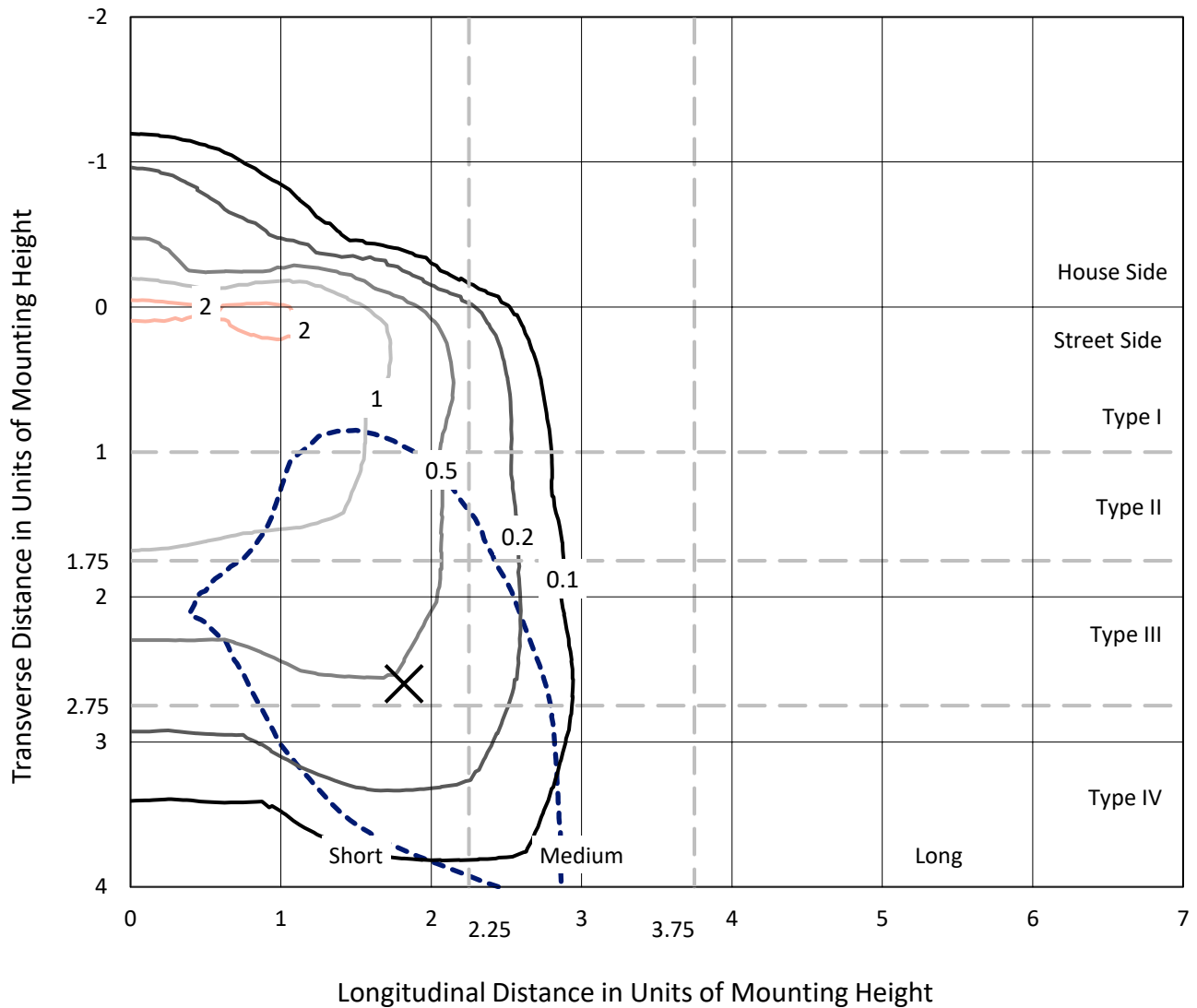
Input Watts (W): 109.2
Input Voltage (V): 120.0
Input Current (Ain): 0.919
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 8.657
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883060
 CATALOG NUMBER: NAV-SB3B-722-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

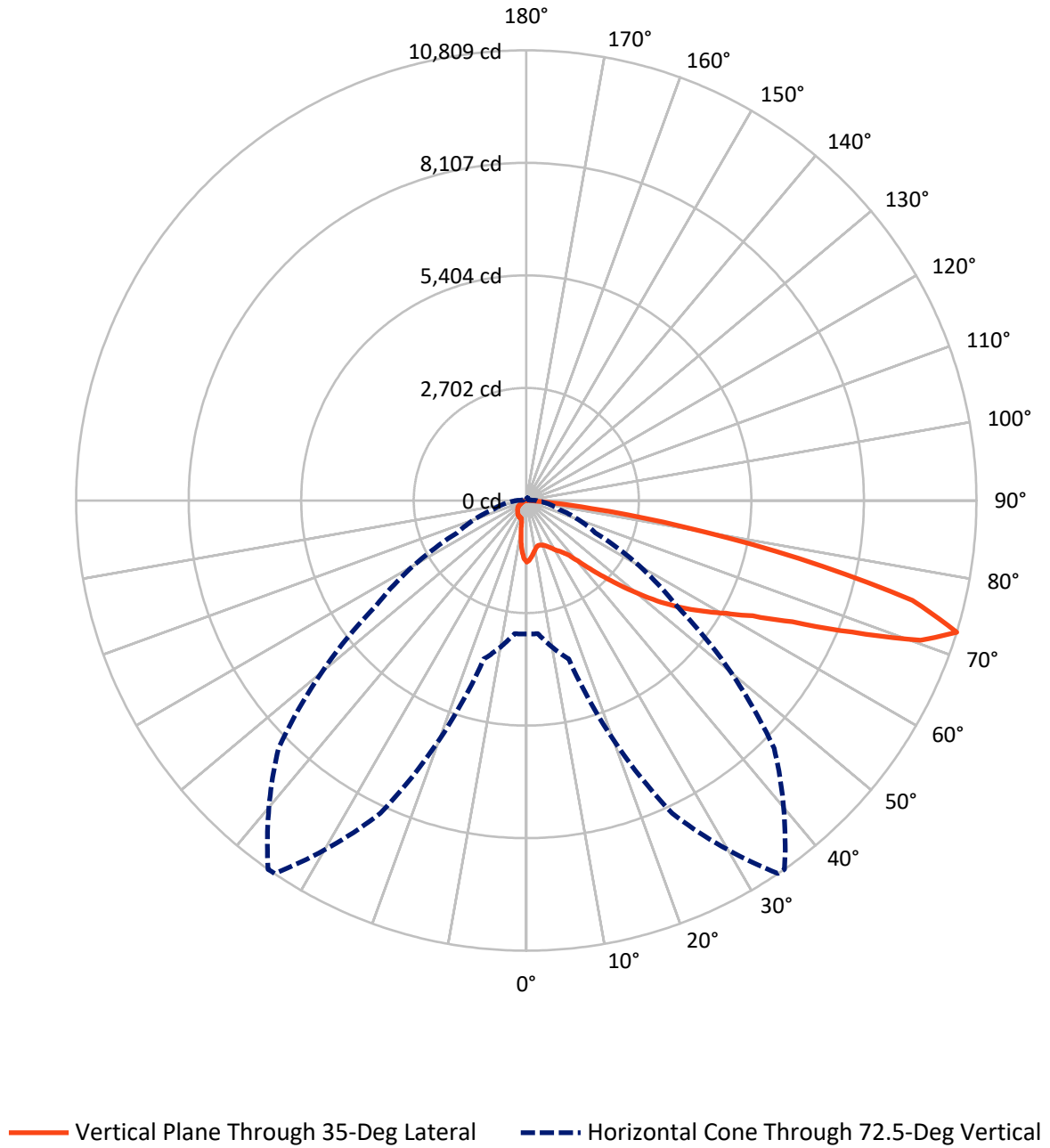
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P883060
CATALOG NUMBER: NAV-SB3B-722-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P883060
 CATALOG NUMBER: NAV-SB3B-722-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1146.9	0.0	1146.9
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9044.1	0.0	9044.1
	% Fixture	88.7	0.0	88.7
Total	Lumens	10191.0	0.0	10191.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.4	1.2
10°-20°	283.9	2.8
20°-30°	461.2	4.5
30°-40°	769.6	7.6
40°-50°	1456.1	14.3
50°-60°	2313.7	22.7
60°-70°	2862.2	28.1
70°-80°	1779.2	17.5
80°-90°	143.8	1.4
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°	10191.0	100.0
0°-180°	10191.0	100.0

Coefficient of Utilization



REPORT NUMBER: P883060

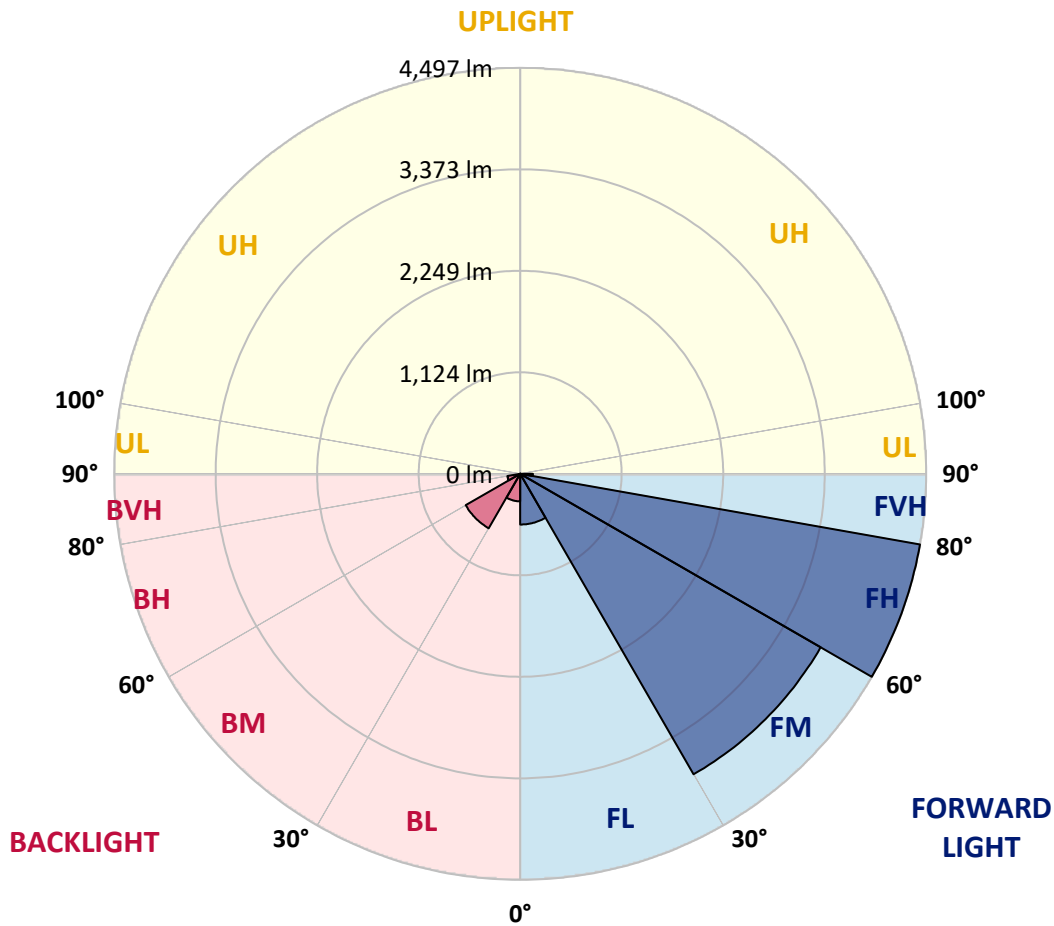
CATALOG NUMBER: NAV-SB3B-722-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.8	5.5			
FM (30°-60°)	3843.0	37.7			
FH (60°-80°)	4497.4	44.1			G2/5000
FVH (80°-90°)	141.8	1.4			G2/225
BL (0°-30°)	304.8	3.0	B1/500		
BM (30°-60°)	696.3	6.8	B1/1000		
BH (60°-80°)	143.9	1.4	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			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 IV Short



REPORT NUMBER: P883060

CATALOG NUMBER: NAV-SB3B-722-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0
2.5°	1411.3	1423.3	1425.5	1429.2	1429.2	1433.7	1441.2	1451.6	1468.8	1477.8	1483.7
5°	1300.8	1309.8	1321.0	1329.9	1347.1	1349.3	1378.5	1406.8	1446.4	1476.3	1497.2
7.5°	1189.5	1200.0	1214.9	1236.6	1259.0	1265.7	1309.8	1357.5	1420.3	1476.3	1511.4
10°	1111.1	1111.9	1125.3	1147.0	1182.8	1191.0	1244.8	1312.7	1391.1	1467.3	1524.8
12.5°	1067.1	1072.3	1078.3	1094.7	1129.0	1134.3	1191.8	1271.7	1362.0	1462.1	1540.5
15°	1067.1	1070.8	1074.5	1082.7	1110.4	1114.9	1165.6	1245.5	1347.1	1464.3	1565.9
17.5°	1078.3	1084.2	1081.3	1091.0	1120.1	1123.1	1167.9	1238.1	1346.3	1478.5	1604.7
20°	1105.1	1109.6	1103.7	1109.6	1138.8	1144.7	1191.0	1252.3	1359.0	1503.2	1653.2
22.5°	1147.7	1150.0	1135.8	1140.2	1170.1	1177.6	1231.3	1292.6	1389.7	1542.7	1718.2
25°	1201.5	1206.0	1184.3	1189.5	1217.9	1226.9	1288.8	1353.1	1438.2	1597.2	1801.1
27.5°	1263.5	1265.7	1247.0	1246.3	1282.9	1295.6	1358.3	1427.7	1503.2	1665.9	1905.6
30°	1334.4	1341.1	1323.2	1320.2	1366.5	1377.0	1438.9	1519.6	1598.7	1769.0	2054.2
32.5°	1390.4	1395.6	1385.2	1392.6	1439.7	1447.9	1536.8	1649.5	1748.8	1915.3	2256.6
35°	1471.0	1474.0	1450.1	1463.6	1517.3	1538.2	1670.4	1831.7	1937.7	2099.0	2520.9
37.5°	1763.0	1763.0	1661.5	1595.0	1646.5	1665.2	1853.4	2061.0	2170.7	2345.5	2854.0
40°	2167.0	2160.3	2011.7	1875.8	1869.0	1905.6	2114.0	2349.9	2471.7	2641.2	3228.8
42.5°	2597.8	2587.4	2385.0	2250.6	2228.2	2240.9	2414.9	2706.1	2830.1	3001.8	3632.1
45°	2980.2	2977.2	2792.0	2611.3	2571.0	2611.3	2790.5	3122.8	3211.7	3392.4	4034.5
47.5°	3300.5	3300.5	3165.4	3047.4	3026.5	3050.4	3299.0	3585.0	3576.8	3808.3	4426.6
50°	3669.4	3666.4	3538.0	3487.2	3508.9	3542.5	3884.5	4071.9	3954.6	4216.7	4776.8
52.5°	3927.8	3945.7	3901.6	3893.4	4003.9	4062.2	4478.8	4548.3	4292.9	4604.3	5038.9
55°	4132.4	4153.3	4204.0	4261.5	4474.4	4550.5	5054.6	5000.1	4575.9	4940.3	5189.7
57.5°	4422.1	4392.2	4470.6	4584.1	4928.4	5020.2	5612.4	5426.4	4803.7	5212.9	5206.2
60°	4773.8	4778.3	4791.7	4935.1	5381.6	5499.6	6162.0	5829.7	4950.0	5380.1	5024.0
62.5°	5196.4	5203.2	5230.8	5451.1	5990.2	6101.5	6747.4	6159.7	5017.2	5333.1	4553.5
65°	5167.3	5195.7	5504.1	6257.5	6915.4	7025.2	7430.6	6391.2	4915.7	4903.0	3707.5
67.5°	4707.3	4753.6	5269.6	7220.8	8310.3	8432.7	8256.5	6436.8	4477.3	3812.8	2418.6
70°	4104.0	4120.4	4740.9	8087.0	9925.4	10049.4	8995.8	5935.7	3397.6	2126.7	1083.5
72.5°	3204.9	3208.7	3936.7	8287.9	10802.1	10808.8	8415.6	4406.4	1827.2	816.9	376.3
75°	2289.5	2267.1	2636.7	6721.3	9503.5	9579.7	6309.1	2066.9	698.2	386.1	187.4
77.5°	1227.6	1252.3	1492.0	3986.0	6565.2	6695.1	3442.4	595.9	355.4	262.8	124.0
80°	379.3	400.2	611.6	1825.0	3718.7	3797.1	1276.1	265.1	247.9	187.4	81.4
82.5°	119.5	124.0	285.2	766.9	1543.5	1579.3	369.6	150.1	169.5	124.0	47.8
85°	34.3	35.1	126.9	286.0	381.6	389.0	103.8	58.2	97.1	76.9	24.6
87.5°	3.7	11.9	47.8	47.8	33.6	32.9	11.2	12.7	27.6	9.7	4.5
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: P883060
 CATALOG NUMBER: NAV-SB3B-722-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0	1477.0
2.5°	1480.0	1480.8	1471.0	1454.6	1436.7	1421.8	1403.1	1388.2	1377.7	1374.7	1379.9
5°	1490.5	1485.2	1457.6	1407.6	1347.8	1296.3	1238.8	1193.3	1163.4	1150.7	1155.2
7.5°	1506.1	1491.2	1430.7	1332.2	1217.9	1116.4	1013.3	933.4	882.6	857.2	861.0
10°	1519.6	1489.7	1385.9	1223.1	1048.4	894.6	755.7	659.4	605.6	580.2	581.0
12.5°	1532.3	1489.0	1327.7	1093.9	857.2	669.1	539.9	492.1	477.2	471.9	470.4
15°	1556.2	1491.2	1254.5	946.1	666.8	505.5	458.5	457.7	460.7	459.2	458.5
17.5°	1589.0	1493.4	1171.6	789.3	514.5	445.8	443.6	450.3	454.8	452.5	451.8
20°	1631.6	1502.4	1083.5	634.0	442.1	430.9	436.1	442.1	445.8	442.1	441.3
22.5°	1691.3	1518.1	987.2	509.3	418.9	421.9	426.4	433.1	436.8	431.6	430.9
25°	1764.5	1542.7	892.3	442.8	407.7	411.4	418.2	425.6	430.1	424.9	424.1
27.5°	1859.3	1582.3	805.0	427.9	396.5	398.7	408.5	419.7	425.6	418.9	418.9
30°	1996.7	1647.3	729.5	434.6	389.8	384.6	398.0	413.7	420.4	414.4	413.7
32.5°	2178.9	1739.1	683.3	445.0	386.8	368.1	380.8	401.0	412.2	408.5	408.5
35°	2417.9	1878.8	665.3	457.0	384.6	351.0	359.9	381.6	401.0	404.7	404.7
37.5°	2707.6	2072.9	670.6	462.2	377.8	336.8	341.3	359.9	385.3	397.3	400.2
40°	3036.9	2299.2	700.4	457.0	370.4	324.8	325.6	339.8	362.2	380.1	386.1
42.5°	3376.7	2563.5	755.7	437.6	363.7	314.4	312.1	321.8	336.8	349.5	354.7
45°	3700.0	2835.3	810.2	410.7	355.4	303.9	298.7	302.4	305.4	310.6	313.6
47.5°	3982.3	3026.5	794.5	386.1	344.2	292.0	283.0	281.5	272.6	271.8	271.1
50°	4177.2	3068.3	705.7	361.4	327.8	278.5	264.3	255.4	239.7	232.2	233.0
52.5°	4239.1	2903.3	576.5	336.8	300.9	260.6	240.4	226.3	206.8	200.1	199.4
55°	4157.0	2579.9	460.7	306.9	263.6	236.7	214.3	195.6	180.0	171.7	171.7
57.5°	3956.1	2168.5	364.4	271.8	224.0	209.8	187.4	168.8	155.3	147.1	145.6
60°	3623.1	1721.9	288.2	230.0	191.2	180.7	157.6	145.6	133.7	124.0	121.7
62.5°	3117.6	1229.1	226.3	182.2	159.8	147.9	134.4	125.4	111.3	97.8	95.6
65°	2432.8	751.9	174.7	133.7	128.4	122.5	114.2	106.0	88.9	75.4	73.2
67.5°	1534.5	356.2	124.7	100.8	101.6	98.6	94.8	88.1	75.4	63.5	62.0
70°	675.8	172.5	82.1	76.9	75.4	75.4	78.4	76.2	64.2	53.0	50.8
72.5°	230.0	92.6	61.2	58.2	54.5	53.8	65.7	63.5	51.5	41.1	38.8
75°	120.2	62.0	44.8	41.8	32.9	39.6	52.3	49.3	36.6	26.9	24.6
77.5°	78.4	44.1	30.6	26.9	18.7	26.1	38.8	34.3	21.7	13.4	11.9
80°	49.3	29.1	17.9	12.7	9.0	14.2	20.9	14.9	8.2	3.0	2.2
82.5°	26.1	14.9	6.7	4.5	3.7	4.5	5.2	3.7	1.5	0.0	0.0
85°	10.5	5.2	2.2	1.5	0.7	0.0	1.5	0.7	0.0	0.0	0.0
87.5°	3.7	0.7	0.0	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)