

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: P882560

Luminaire Tested: **NAV-SB2C-727-U-T4FT-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882560
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-SB2C-727-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA 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: 10473 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

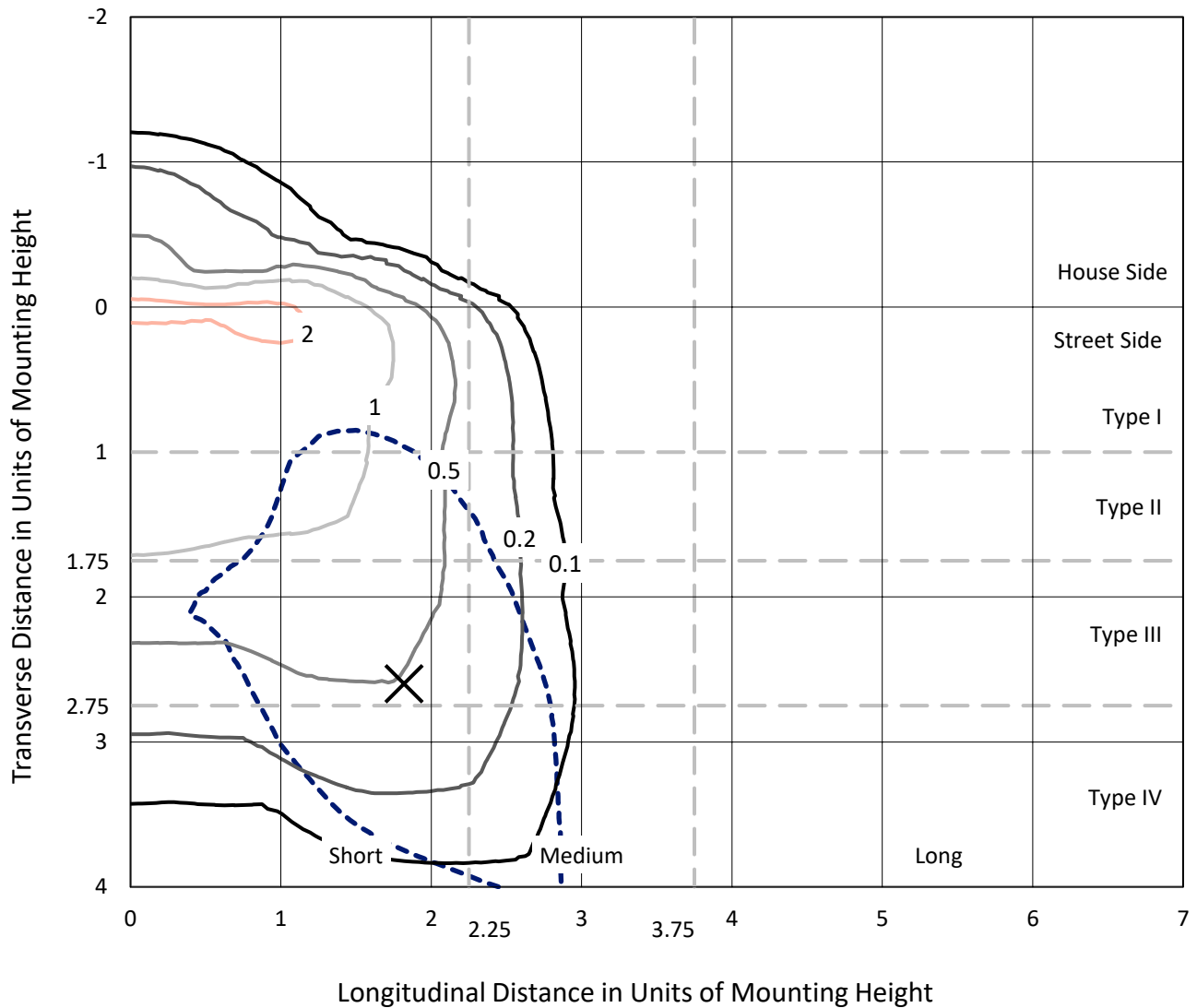
Input Watts (W): 100.9
Input Voltage (V): 120.0
Input Current (Ain): 0.857
Voltage Rise (V): NR
Power Factor: 0.994
Total Harmonic Distortion (THDi): 9.472
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

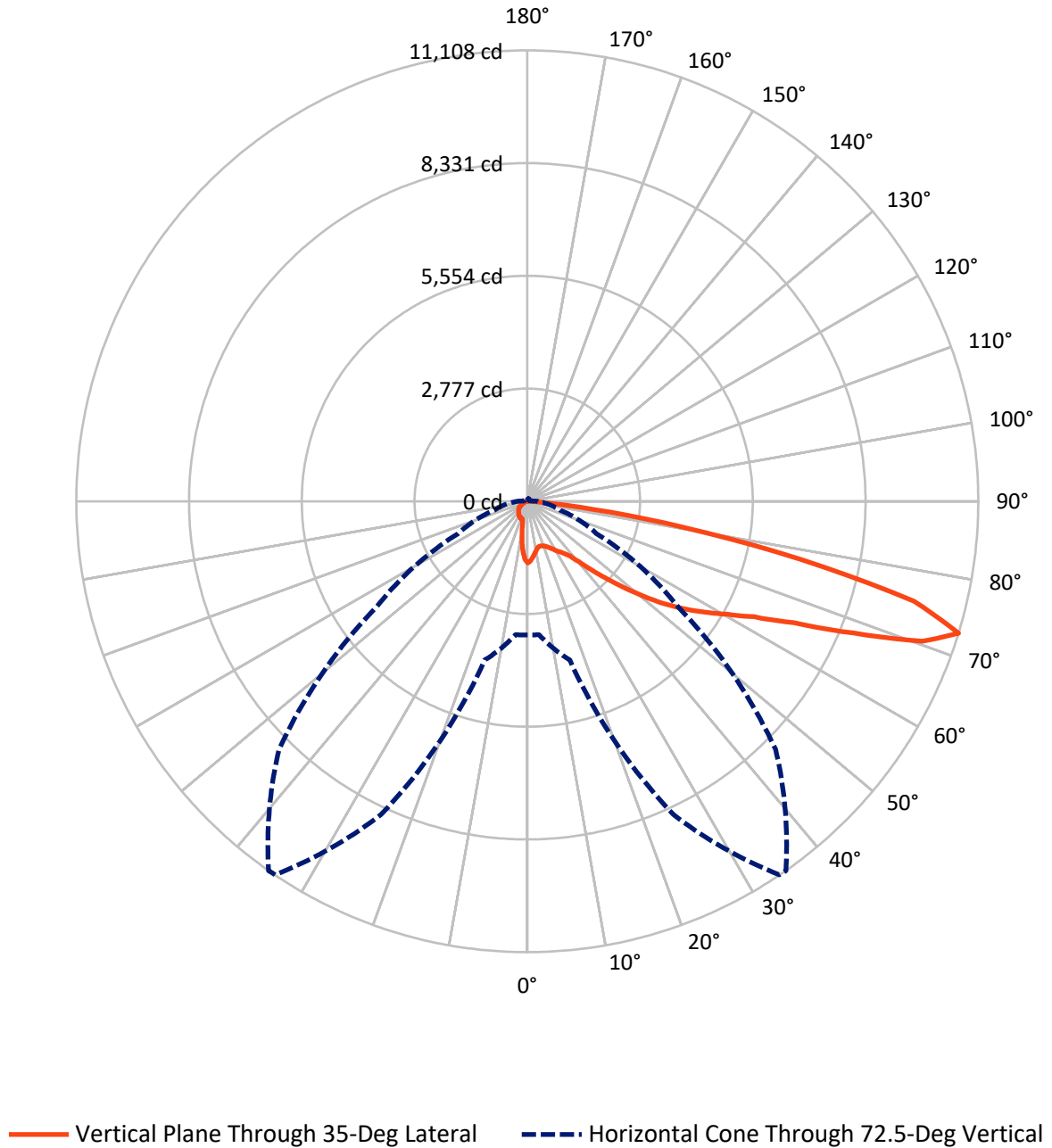
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1178.7	0.0	1178.7
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9294.3	0.0	9294.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	10473.0	0.0	10473.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.7	1.2
10°-20°	291.8	2.8
20°-30°	474.0	4.5
30°-40°	790.9	7.6
40°-50°	1496.4	14.3
50°-60°	2377.7	22.7
60°-70°	2941.4	28.1
70°-80°	1828.4	17.5
80°-90°	147.8	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°	10473.0	100.0
0°-180°	10473.0	100.0

Coefficient of Utilization



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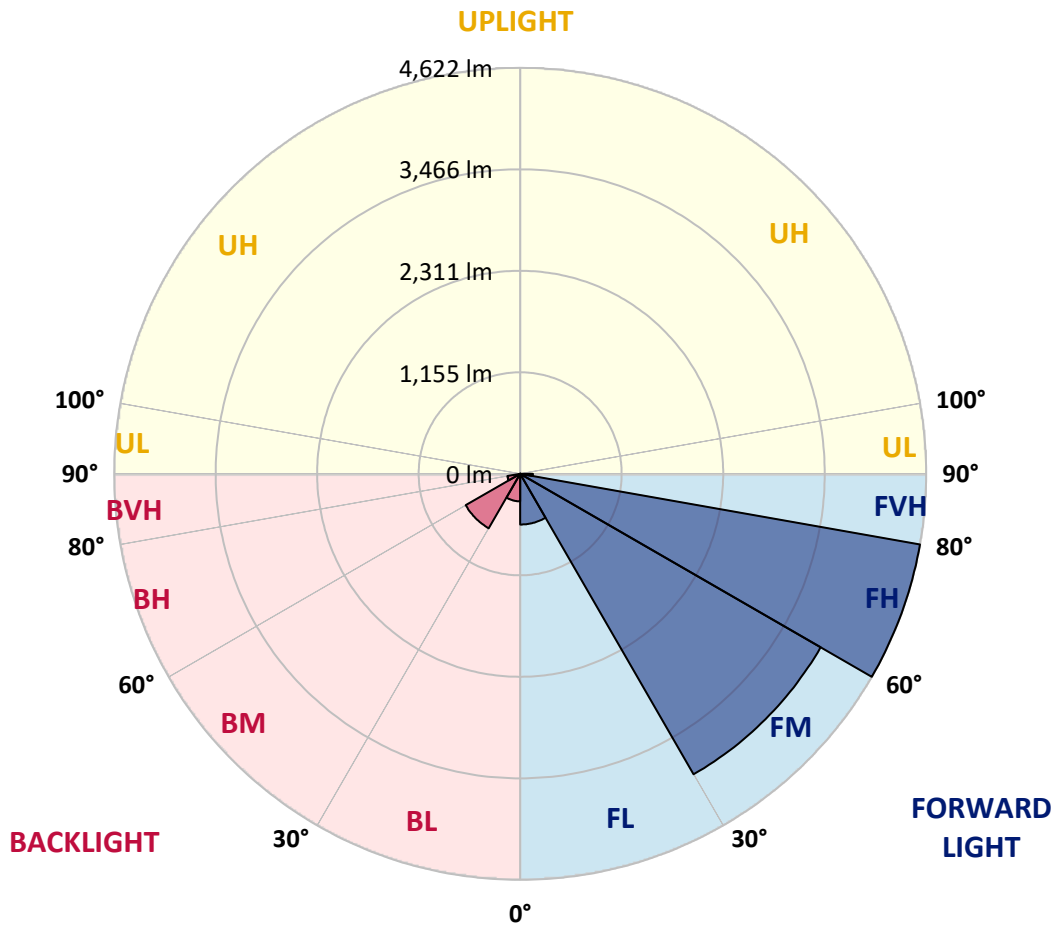
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.3	5.5			
FM (30°-60°)	3949.4	37.7			
FH (60°-80°)	4621.9	44.1			G2/5000
FVH (80°-90°)	145.8	1.4			G2/225
BL (0°-30°)	313.2	3.0	B1/500		
BM (30°-60°)	715.6	6.8	B1/1000		
BH (60°-80°)	147.9	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9
2.5°	1450.4	1462.6	1464.9	1468.8	1468.8	1473.4	1481.1	1491.8	1509.4	1518.7	1524.8
5°	1336.8	1346.0	1357.5	1366.7	1384.4	1386.7	1416.6	1445.8	1486.4	1517.1	1538.6
7.5°	1222.4	1233.2	1248.5	1270.8	1293.8	1300.7	1346.0	1395.1	1459.6	1517.1	1553.2
10°	1141.9	1142.6	1156.5	1178.7	1215.5	1224.0	1279.2	1349.1	1429.6	1507.9	1567.0
12.5°	1096.6	1102.0	1108.1	1125.0	1160.3	1165.7	1224.7	1306.9	1399.7	1502.5	1583.1
15°	1096.6	1100.4	1104.3	1112.7	1141.1	1145.7	1197.9	1280.0	1384.4	1504.8	1609.2
17.5°	1108.1	1114.2	1111.2	1121.2	1151.1	1154.1	1200.2	1272.3	1383.6	1519.4	1649.1
20°	1135.7	1140.3	1134.2	1140.3	1170.3	1176.4	1224.0	1286.9	1396.6	1544.7	1699.0
22.5°	1179.5	1181.8	1167.2	1171.8	1202.5	1210.2	1265.4	1328.3	1428.1	1585.4	1765.8
25°	1234.7	1239.3	1217.1	1222.4	1251.6	1260.8	1324.5	1390.5	1478.0	1641.4	1850.9
27.5°	1298.4	1300.7	1281.5	1280.8	1318.4	1331.4	1395.9	1467.2	1544.7	1712.0	1958.4
30°	1371.3	1378.2	1359.8	1356.7	1404.3	1415.1	1478.8	1561.6	1643.0	1817.9	2111.1
32.5°	1428.9	1434.2	1423.5	1431.2	1479.5	1488.0	1579.3	1695.2	1797.2	1968.3	2319.0
35°	1511.7	1514.8	1490.3	1504.1	1559.3	1580.8	1716.6	1882.4	1991.4	2157.1	2590.7
37.5°	1811.8	1811.8	1707.4	1639.1	1692.1	1711.3	1904.7	2118.0	2230.8	2410.4	2932.9
40°	2227.0	2220.0	2067.3	1927.7	1920.8	1958.4	2172.5	2415.0	2540.0	2714.2	3318.2
42.5°	2669.7	2659.0	2451.0	2312.9	2289.9	2302.9	2481.7	2781.0	2908.4	3084.9	3732.6
45°	3062.6	3059.6	2869.3	2683.5	2642.1	2683.5	2867.7	3209.2	3300.5	3486.2	4146.2
47.5°	3391.8	3391.8	3252.9	3131.7	3110.2	3134.8	3390.3	3684.2	3675.8	3913.7	4549.1
50°	3770.9	3767.9	3635.9	3583.7	3605.9	3640.5	3991.9	4184.6	4064.1	4333.4	4909.0
52.5°	4036.4	4054.9	4009.6	4001.1	4114.7	4174.6	4602.8	4674.1	4411.7	4731.7	5178.3
55°	4246.7	4268.2	4320.4	4379.5	4598.2	4676.4	5194.4	5138.4	4702.5	5077.0	5333.3
57.5°	4544.5	4513.8	4594.3	4711.0	5064.7	5159.1	5767.7	5576.6	4936.6	5357.1	5350.2
60°	4905.9	4910.5	4924.3	5071.7	5530.5	5651.8	6332.5	5991.0	5087.0	5529.0	5163.0
62.5°	5340.2	5347.1	5375.5	5601.9	6156.0	6270.3	6934.1	6330.2	5156.1	5480.7	4679.5
65°	5310.3	5339.5	5656.4	6430.7	7106.8	7219.6	7636.3	6568.1	5051.7	5038.7	3810.1
67.5°	4837.6	4885.2	5415.4	7420.6	8540.2	8666.1	8485.0	6614.9	4601.2	3918.3	2485.6
70°	4217.6	4234.4	4872.1	8310.8	10200.1	10327.5	9244.7	6099.9	3491.6	2185.5	1113.5
72.5°	3293.6	3297.5	4045.7	8517.2	11101.0	11107.9	8648.4	4528.3	1877.8	839.5	386.8
75°	2352.8	2329.8	2709.6	6907.2	9766.5	9844.8	6483.6	2124.1	717.5	396.7	192.6
77.5°	1261.6	1286.9	1533.2	4096.3	6746.9	6880.4	3537.6	612.4	365.3	270.1	127.4
80°	389.8	411.3	628.5	1875.5	3821.6	3902.2	1311.5	272.4	254.8	192.6	83.6
82.5°	122.8	127.4	293.1	788.1	1586.2	1623.0	379.9	154.2	174.2	127.4	49.1
85°	35.3	36.1	130.5	293.9	392.1	399.8	106.7	59.9	99.8	79.0	25.3
87.5°	3.8	12.3	49.1	49.1	34.5	33.8	11.5	13.0	28.4	10.0	4.6
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°	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9	1517.9
2.5°	1521.0	1521.7	1511.7	1494.9	1476.5	1461.1	1441.9	1426.6	1415.8	1412.8	1418.1
5°	1531.7	1526.3	1497.9	1446.5	1385.1	1332.2	1273.1	1226.3	1195.6	1182.5	1187.1
7.5°	1547.8	1532.5	1470.3	1369.0	1251.6	1147.2	1041.3	959.2	907.0	881.0	884.8
10°	1561.6	1530.9	1424.3	1257.0	1077.4	919.3	776.6	677.6	622.3	596.3	597.0
12.5°	1574.7	1530.2	1364.4	1124.2	881.0	687.6	554.8	505.7	490.4	485.0	483.5
15°	1599.2	1532.5	1289.2	972.3	685.3	519.5	471.2	470.4	473.5	471.9	471.2
17.5°	1633.0	1534.8	1204.0	811.1	528.7	458.1	455.8	462.7	467.3	465.0	464.3
20°	1676.7	1544.0	1113.5	651.5	454.3	442.8	448.2	454.3	458.1	454.3	453.5
22.5°	1738.1	1560.1	1014.5	523.4	430.5	433.6	438.2	445.1	448.9	443.5	442.8
25°	1813.3	1585.4	917.0	455.1	419.0	422.8	429.7	437.4	442.0	436.6	435.9
27.5°	1910.8	1626.1	827.2	439.7	407.5	409.8	419.8	431.3	437.4	430.5	430.5
30°	2052.0	1692.9	749.7	446.6	400.6	395.2	409.0	425.1	432.0	425.9	425.1
32.5°	2239.2	1787.2	702.2	457.4	397.5	378.3	391.4	412.1	423.6	419.8	419.8
35°	2484.8	1930.7	683.7	469.6	395.2	360.7	369.9	392.1	412.1	415.9	415.9
37.5°	2782.5	2130.3	689.1	475.0	388.3	346.1	350.7	369.9	396.0	408.2	411.3
40°	3121.0	2362.8	719.8	469.6	380.6	333.8	334.6	349.2	372.2	390.6	396.7
42.5°	3470.1	2634.4	776.6	449.7	373.7	323.1	320.8	330.7	346.1	359.1	364.5
45°	3802.4	2913.8	832.6	422.1	365.3	312.3	307.0	310.8	313.9	319.2	322.3
47.5°	4092.5	3110.2	816.5	396.7	353.8	300.0	290.8	289.3	280.1	279.3	278.6
50°	4292.8	3153.2	725.2	371.4	336.9	286.2	271.7	262.4	246.3	238.7	239.4
52.5°	4356.4	2983.6	592.4	346.1	309.3	267.8	247.1	232.5	212.6	205.7	204.9
55°	4272.0	2651.3	473.5	315.4	270.9	243.3	220.2	201.1	184.9	176.5	176.5
57.5°	4065.6	2228.5	374.5	279.3	230.2	215.6	192.6	173.4	159.6	151.2	149.6
60°	3723.4	1769.6	296.2	236.4	196.5	185.7	161.9	149.6	137.4	127.4	125.1
62.5°	3203.8	1263.1	232.5	187.2	164.2	151.9	138.1	128.9	114.3	100.5	98.2
65°	2500.1	772.8	179.6	137.4	132.0	125.9	117.4	109.0	91.3	77.5	75.2
67.5°	1577.0	366.0	128.2	103.6	104.4	101.3	97.5	90.6	77.5	65.2	63.7
70°	694.5	177.3	84.4	79.0	77.5	77.5	80.6	78.3	66.0	54.5	52.2
72.5°	236.4	95.2	62.9	59.9	56.0	55.3	67.5	65.2	52.9	42.2	39.9
75°	123.5	63.7	46.0	43.0	33.8	40.7	53.7	50.6	37.6	27.6	25.3
77.5°	80.6	45.3	31.5	27.6	19.2	26.9	39.9	35.3	22.3	13.8	12.3
80°	50.6	29.9	18.4	13.0	9.2	14.6	21.5	15.3	8.4	3.1	2.3
82.5°	26.9	15.3	6.9	4.6	3.8	4.6	5.4	3.8	1.5	0.0	0.0
85°	10.7	5.4	2.3	1.5	0.8	0.0	1.5	0.8	0.0	0.0	0.0
87.5°	3.8	0.8	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)