

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: P882566

Luminaire Tested: **NAV-SB2C-730-U-T2-HSS**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-730-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

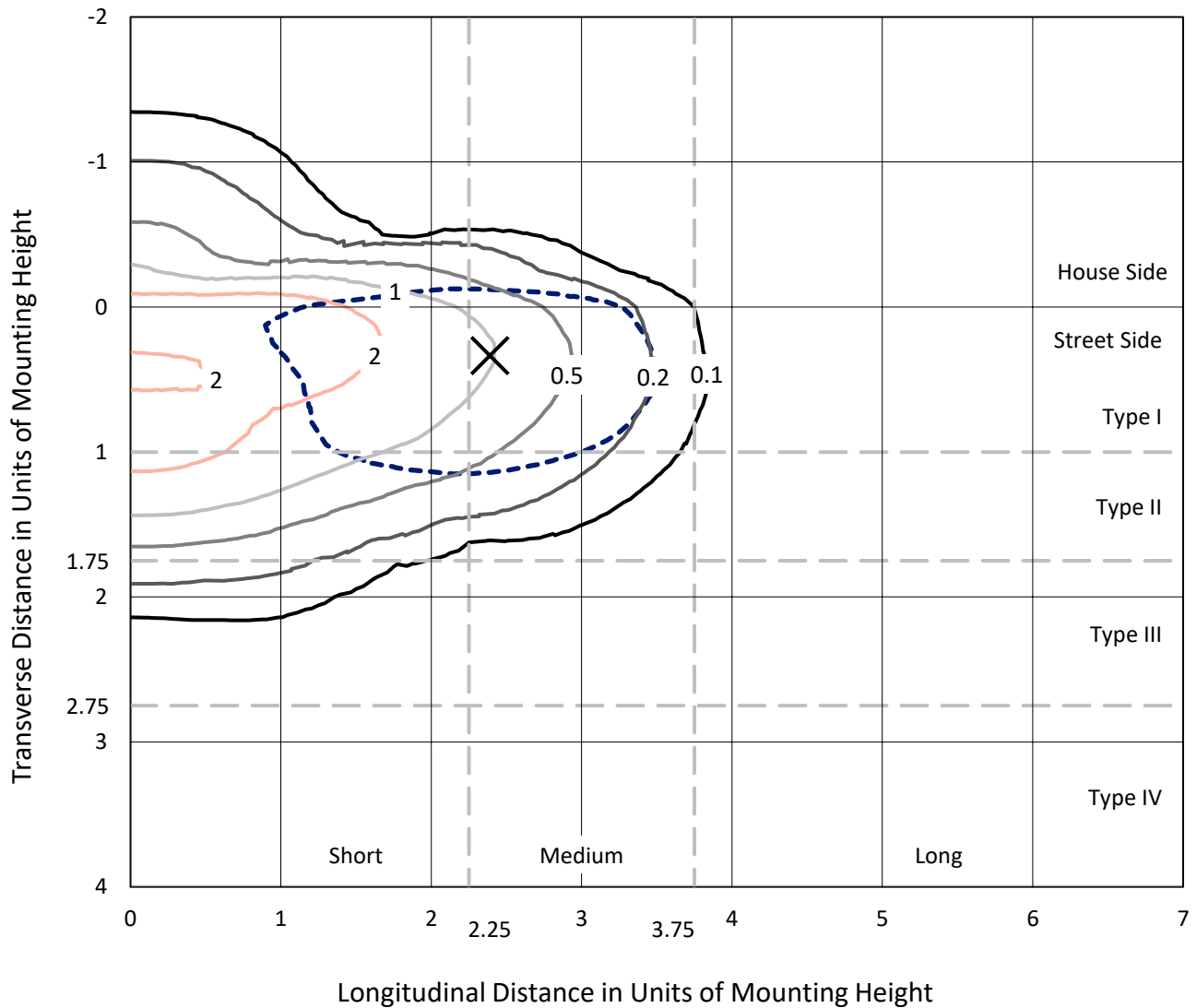
Lumens per Lamp: N/A  
Luminaire Lumens: 10972 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): 120.0  
Input Current (Ain): 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

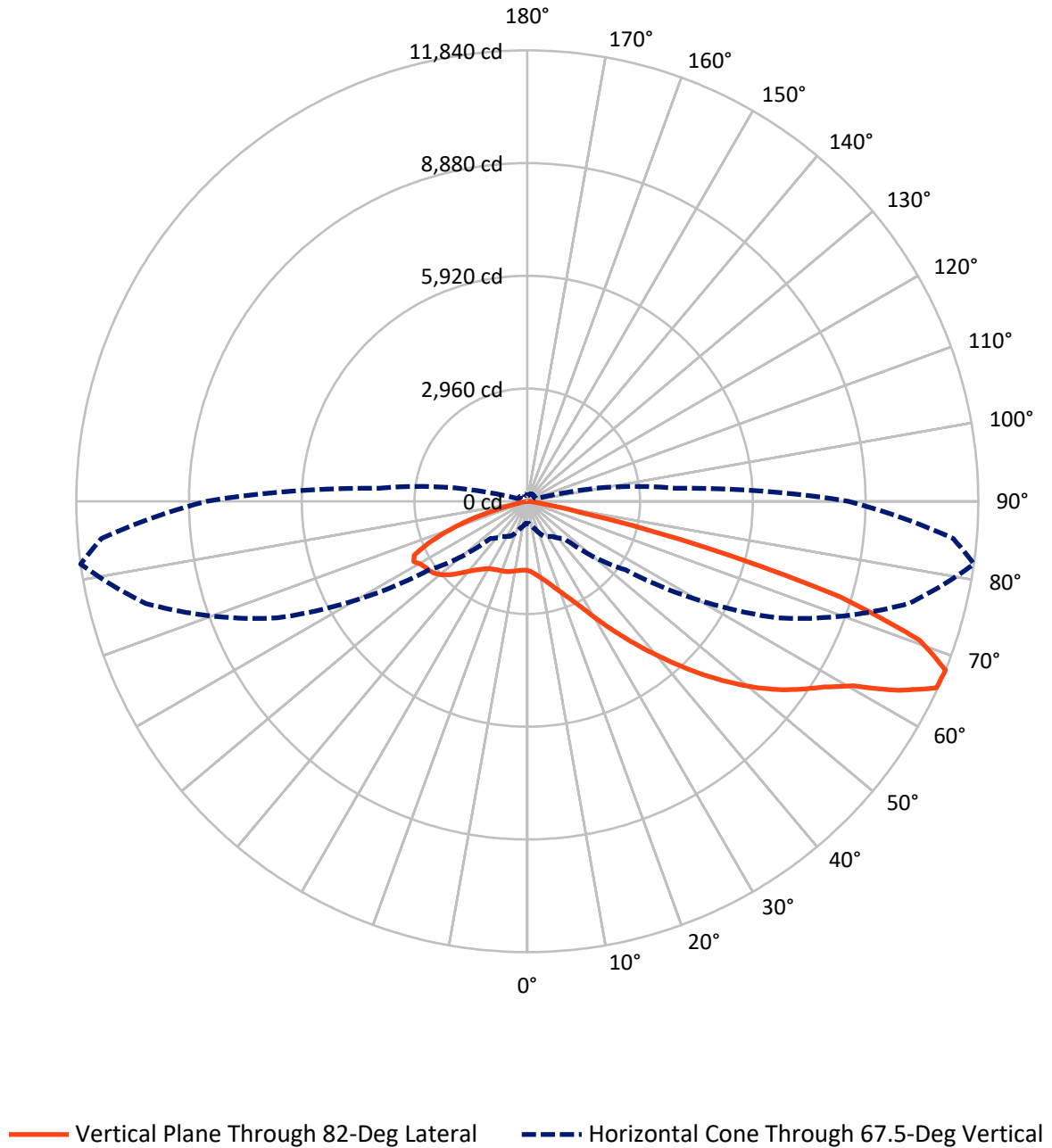
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1987.5	0.0	1987.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	8984.5	0.0	8984.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	10972.0	0.0	10972.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.9	1.5
10°-20°	420.8	3.8
20°-30°	674.0	6.1
30°-40°	1191.9	10.9
40°-50°	2088.3	19.0
50°-60°	2785.2	25.4
60°-70°	2592.9	23.6
70°-80°	995.1	9.1
80°-90°	61.8	0.6
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°	10972.0	100.0
0°-180°	10972.0	100.0

**Coefficient of Utilization**



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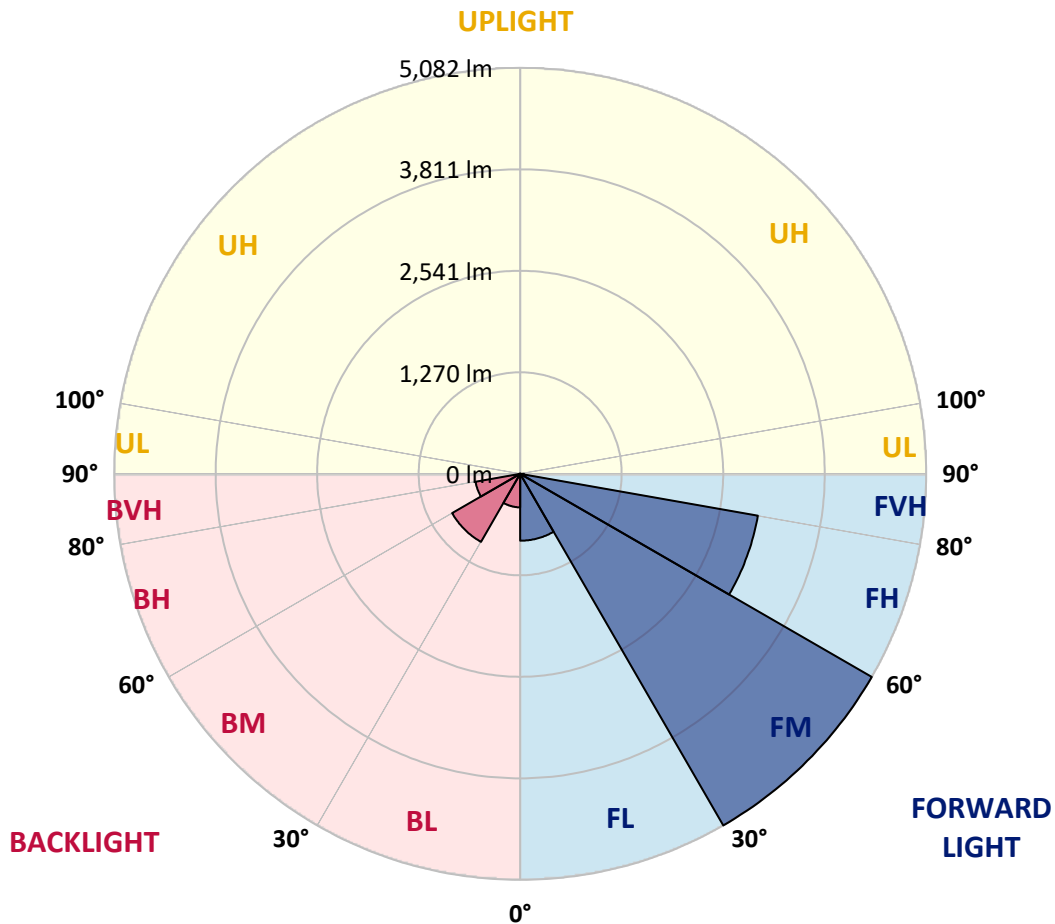
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.0	7.6			
FM (30°-60°)	5081.8	46.3			
FH (60°-80°)	3020.8	27.5			G2/5000
FVH (80°-90°)	44.9	0.4			G1/100
BL (0°-30°)	419.8	3.8	B1/500		
BM (30°-60°)	983.6	9.0	B1/1000		
BH (60°-80°)	567.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	16.9	0.2			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



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7
2.5°	1921.2	1932.2	1925.9	1922.8	1917.2	1909.3	1903.0	1883.3	1862.7	1849.3	1844.5
5°	1959.9	1970.9	1970.2	1973.3	1977.3	1979.6	1978.1	1955.9	1926.7	1903.8	1890.4
7.5°	1926.7	1939.3	1949.6	1965.4	1993.1	2022.3	2036.5	2031.8	2001.7	1970.2	1953.6
10°	1832.7	1846.1	1870.6	1907.7	1966.2	2029.4	2082.3	2106.8	2087.9	2053.1	2030.2
12.5°	1660.5	1673.9	1722.1	1802.7	1900.6	2010.4	2111.6	2177.1	2181.9	2147.1	2120.2
15°	1466.9	1480.4	1531.7	1632.8	1782.1	1958.3	2127.4	2251.4	2293.2	2263.2	2230.8
17.5°	1346.9	1358.7	1397.4	1478.8	1634.4	1854.0	2121.8	2330.4	2426.0	2402.3	2363.5
20°	1310.5	1320.8	1339.0	1395.9	1525.4	1745.8	2085.5	2404.6	2568.9	2555.5	2512.1
22.5°	1349.2	1358.7	1364.3	1389.5	1470.9	1674.7	2039.7	2480.5	2734.8	2736.4	2683.5
25°	1438.5	1448.0	1441.7	1457.5	1493.0	1652.6	2022.3	2569.7	2943.4	2960.8	2900.7
27.5°	1585.4	1586.2	1571.2	1570.4	1576.0	1685.8	2040.5	2665.3	3206.4	3238.8	3164.6
30°	1880.1	1868.2	1810.6	1748.2	1719.7	1785.3	2091.0	2778.3	3516.9	3574.6	3481.3
32.5°	2334.3	2316.9	2211.1	2061.8	1911.7	1945.7	2181.9	2907.0	3855.0	3959.3	3845.5
35°	2827.3	2822.5	2711.9	2489.9	2227.7	2174.0	2329.6	3076.1	4223.9	4389.8	4254.7
37.5°	3285.4	3283.1	3219.9	2958.4	2639.2	2492.3	2566.6	3297.3	4618.9	4859.0	4699.4
40°	3704.1	3711.2	3648.0	3414.2	3092.7	2900.7	2888.9	3570.6	5058.1	5370.1	5180.5
42.5°	4065.9	4073.8	4009.8	3836.8	3540.6	3352.6	3284.6	3905.5	5487.0	5919.1	5694.8
45°	4311.6	4360.6	4351.1	4212.8	4000.3	3805.2	3760.2	4325.8	5976.0	6501.3	6238.3
47.5°	4381.1	4426.1	4497.2	4516.2	4386.6	4194.7	4248.4	4832.2	6470.5	7084.3	6784.9
50°	4209.7	4251.5	4399.3	4596.0	4686.0	4626.8	4723.1	5374.9	6976.9	7665.7	7321.3
52.5°	3871.6	3914.2	4100.7	4411.9	4779.2	4965.7	5199.5	5909.7	7467.5	8216.3	7829.3
55°	3382.6	3427.6	3667.0	4019.3	4601.5	5105.5	5596.8	6443.7	7916.9	8711.6	8287.4
57.5°	2717.4	2750.6	2999.5	3492.4	4154.4	4966.5	5889.9	7026.7	8340.4	9198.2	8741.7
60°	1771.1	1800.3	2089.4	2639.2	3413.4	4502.0	5948.4	7676.8	8902.8	9831.0	9353.9
62.5°	1177.8	1197.6	1369.0	1772.7	2403.8	3610.1	5606.3	8195.8	9727.5	10932.2	10403.7
65°	808.1	827.9	999.3	1280.5	1553.1	2388.0	4622.8	8127.1	10474.8	11806.7	11181.8
67.5°	576.7	593.3	738.6	1004.0	1124.1	1387.2	3133.8	7248.6	10367.4	11839.9	11223.7
70°	413.1	422.6	542.7	782.1	893.4	833.4	1742.6	5543.9	9077.4	10933.0	10369.0
72.5°	289.1	292.3	376.8	595.6	719.7	608.3	829.5	3696.2	6865.5	8581.3	8038.6
75°	195.9	199.9	253.6	436.8	577.5	464.5	439.2	1982.0	4030.4	4750.0	4257.9
77.5°	120.1	121.7	163.5	298.6	432.1	353.9	282.8	839.7	1559.4	1530.9	1305.0
80°	67.9	67.9	104.3	185.6	294.7	228.3	198.3	357.1	493.7	433.7	382.3
82.5°	37.9	38.7	75.8	115.3	195.1	135.1	109.0	165.1	213.3	188.8	164.3
85°	15.8	17.4	46.6	54.5	93.2	67.1	44.2	69.5	79.0	70.3	51.3
87.5°	1.6	2.4	14.2	10.3	11.1	13.4	6.3	13.4	11.1	11.1	7.9
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°	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7	1817.7
2.5°	1829.5	1817.7	1787.7	1752.9	1707.1	1685.0	1655.0	1634.4	1617.0	1618.6	1602.8
5°	1865.1	1835.1	1767.9	1684.2	1579.9	1505.7	1426.7	1372.2	1327.9	1318.4	1297.1
7.5°	1914.1	1866.7	1749.0	1598.1	1421.9	1288.4	1169.1	1092.5	1038.0	1020.6	1003.2
10°	1977.3	1908.5	1724.5	1489.9	1236.3	1066.4	938.5	878.4	841.3	828.7	819.2
12.5°	2050.7	1956.7	1692.1	1357.9	1045.1	881.6	800.2	770.2	758.4	754.4	752.0
15°	2143.2	2016.8	1643.1	1201.5	883.2	768.6	733.9	729.9	731.5	729.9	729.1
17.5°	2253.0	2082.3	1563.3	1040.4	774.2	711.0	698.3	701.5	705.4	704.6	703.1
20°	2373.0	2147.1	1461.4	897.4	699.9	669.9	662.8	665.9	669.1	667.5	666.7
22.5°	2509.7	2216.6	1348.5	786.0	650.1	632.0	624.1	624.9	624.9	621.7	620.1
25°	2673.2	2293.2	1230.0	707.0	612.2	598.0	588.5	585.4	580.6	571.1	569.6
27.5°	2868.3	2374.6	1116.2	651.7	582.2	568.8	557.7	549.8	538.0	522.2	520.6
30°	3087.9	2473.4	1019.8	617.0	558.5	545.1	532.4	520.6	503.2	483.5	481.9
32.5°	3346.3	2579.2	949.5	594.0	537.2	523.0	507.9	493.7	474.8	455.0	455.8
35°	3654.3	2707.2	908.4	578.2	520.6	501.6	485.0	469.2	455.0	437.6	436.1
37.5°	3988.5	2843.1	895.8	570.3	509.5	480.3	461.3	450.3	448.7	438.4	437.6
40°	4354.2	3004.2	905.3	565.6	497.7	459.8	439.2	436.8	440.8	422.6	423.4
42.5°	4741.3	3195.4	921.1	560.1	481.1	439.2	419.5	419.5	416.3	391.0	391.0
45°	5160.0	3415.8	936.9	546.6	461.3	418.7	403.7	398.1	384.7	360.2	359.4
47.5°	5581.8	3640.1	948.7	522.2	437.6	401.3	387.9	375.2	355.5	333.4	332.6
50°	5982.3	3841.6	936.1	485.8	410.8	384.7	370.5	353.1	331.8	316.8	314.4
52.5°	6340.2	4016.1	882.4	443.2	382.3	367.3	354.7	336.5	319.1	303.3	301.8
55°	6651.4	4157.5	787.6	402.9	357.1	352.3	339.7	316.8	293.1	279.6	278.1
57.5°	6950.0	4265.0	669.1	369.7	334.2	335.7	316.8	296.2	274.1	259.9	258.3
60°	7347.4	4408.7	549.0	338.9	309.7	314.4	293.9	278.9	251.2	233.0	230.7
62.5°	7982.5	4632.3	436.1	301.0	281.2	282.8	274.1	255.9	222.8	201.4	199.9
65°	8486.5	4550.1	343.6	259.9	248.8	251.2	251.2	231.5	195.9	171.4	169.1
67.5°	8429.6	3896.1	274.1	219.6	218.0	219.6	225.1	208.5	173.8	154.0	150.9
70°	7765.3	3099.0	219.6	182.5	189.6	185.6	201.4	190.4	156.4	136.7	134.3
72.5°	6336.2	2232.4	167.5	150.9	145.4	151.7	181.7	171.4	130.3	108.2	105.9
75°	3702.5	1191.3	124.8	119.3	105.1	126.4	161.2	146.1	99.5	79.8	77.4
77.5°	1205.5	415.5	91.6	87.7	78.2	101.9	137.5	123.2	81.4	63.2	60.8
80°	323.1	125.6	62.4	57.7	50.6	75.8	109.0	98.0	58.5	41.1	40.3
82.5°	129.6	52.9	36.3	32.4	27.6	52.1	86.1	79.0	43.4	26.1	26.1
85°	41.9	17.4	13.4	10.3	12.6	32.4	51.3	53.7	30.8	13.4	10.3
87.5°	5.5	2.4	2.4	3.2	2.4	5.5	15.8	15.0	8.7	1.6	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)