

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: P962409

Luminaire Tested: **NAV-SB2C-727-U-T4W-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962409  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-727-U-T4W-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE  
OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10968.5 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

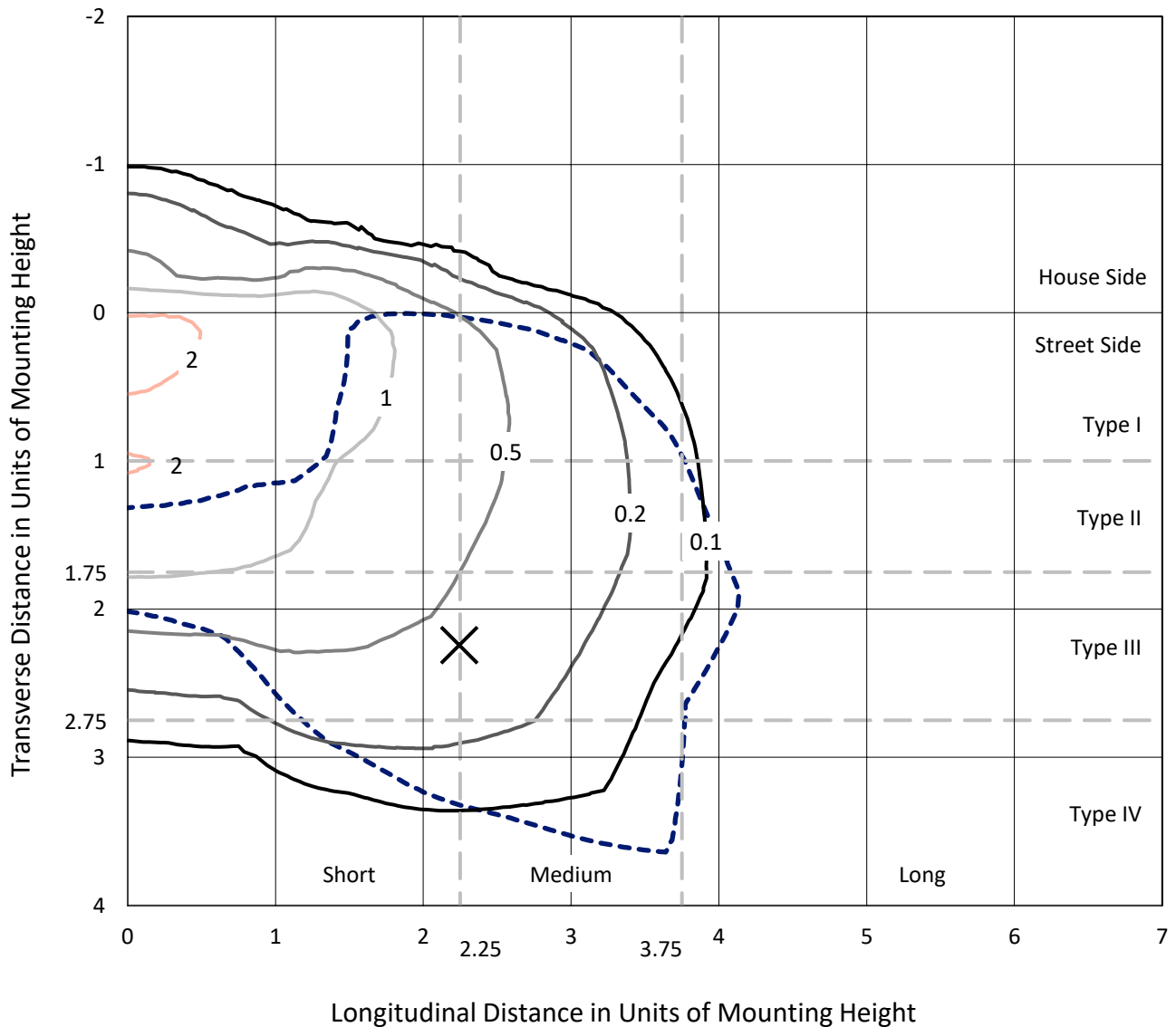
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

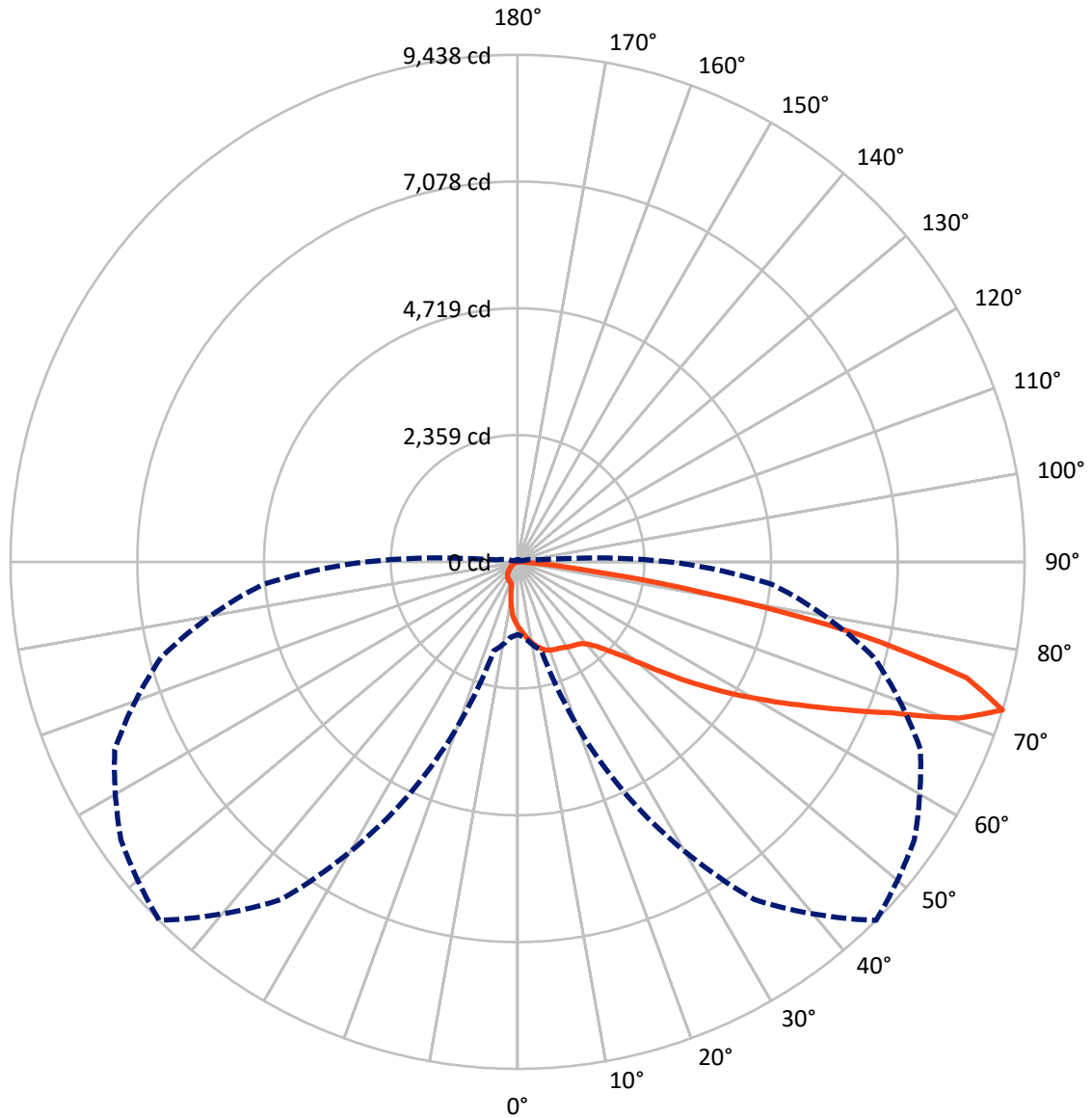
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1152.5	0.0	1152.5
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	9816.0	0.0	9816.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	10968.5	0.0	10968.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	1.0
10°-20°	330.9	3.0
20°-30°	543.4	5.0
30°-40°	770.6	7.0
40°-50°	1273.8	11.6
50°-60°	2288.2	20.9
60°-70°	3177.2	29.0
70°-80°	2304.7	21.0
80°-90°	166.6	1.5
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°	10968.5	100.0
0°-180°	10968.5	100.0

**Coefficient of Utilization**



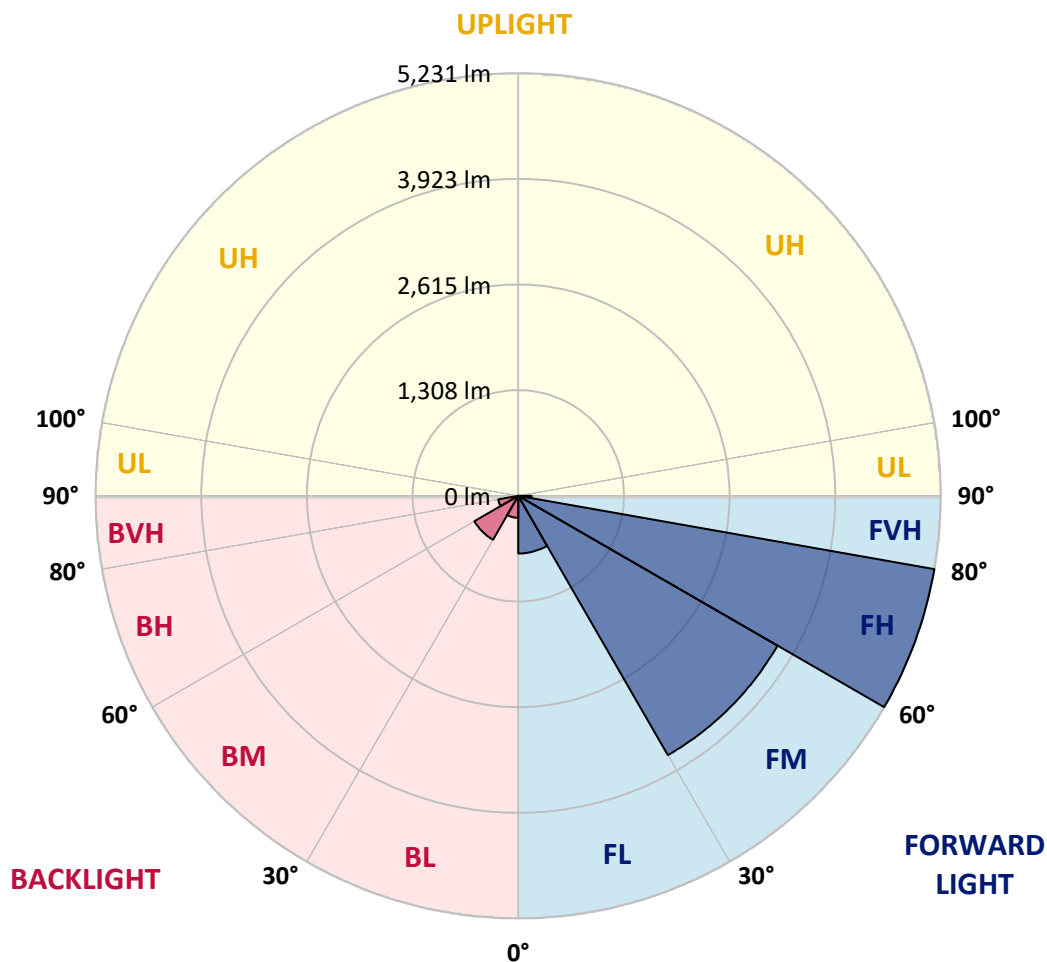
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.5	6.5			
FM (30°-60°)	3705.8	33.8			
FH (60°-80°)	5230.6	47.7			G3/7500
FVH (80°-90°)	165.2	1.5			G2/225
BL (0°-30°)	273.0	2.5	B1/500		
BM (30°-60°)	626.8	5.7	B1/1000		
BH (60°-80°)	251.3	2.3	B1/500		G1/500
BVH (80°-90°)	1.4	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-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6
2.5°	1312.4	1314.7	1313.1	1304.2	1289.2	1280.9	1276.5	1261.6	1251.8	1234.6	1216.6
5°	1432.9	1442.0	1436.7	1418.7	1390.3	1370.1	1364.1	1333.4	1305.6	1273.5	1236.0
7.5°	1561.0	1565.5	1555.7	1532.6	1494.3	1459.9	1454.7	1412.0	1367.9	1318.5	1267.5
10°	1671.8	1677.0	1662.0	1628.4	1585.0	1542.3	1534.8	1487.6	1435.2	1374.5	1309.4
12.5°	1764.6	1769.9	1750.4	1710.0	1662.0	1617.9	1610.4	1561.0	1503.4	1435.9	1355.2
15°	1835.0	1844.7	1818.6	1775.1	1723.4	1679.3	1675.6	1626.9	1570.7	1495.9	1409.8
17.5°	1876.2	1885.9	1861.2	1808.8	1764.6	1727.2	1722.7	1682.2	1629.9	1558.0	1462.9
20°	1882.9	1891.9	1865.7	1820.0	1783.4	1753.4	1751.1	1722.0	1683.8	1614.9	1520.6
22.5°	1862.7	1873.9	1850.0	1813.3	1787.8	1772.1	1769.2	1752.6	1730.9	1672.5	1574.5
25°	1841.7	1850.7	1832.8	1800.5	1787.1	1785.6	1787.8	1784.8	1780.3	1730.9	1637.3
27.5°	1840.3	1850.0	1829.7	1799.1	1791.6	1807.3	1809.5	1823.8	1827.5	1784.1	1698.0
30°	1853.0	1859.8	1840.3	1808.1	1804.3	1840.3	1841.0	1866.4	1872.5	1829.0	1757.9
32.5°	1880.7	1888.2	1868.7	1821.5	1816.3	1866.4	1868.7	1902.4	1912.1	1877.0	1820.8
35°	1945.9	1954.8	1932.3	1858.9	1840.3	1891.1	1897.9	1937.6	1957.0	1927.8	1885.9
37.5°	2108.3	2082.1	2051.3	1934.6	1894.9	1930.1	1941.4	1987.8	2022.2	1988.5	1963.8
40°	2511.8	2429.5	2333.6	2063.3	1990.8	2013.2	2022.2	2068.6	2115.8	2082.8	2070.8
42.5°	3117.5	3020.2	2865.9	2359.9	2135.2	2146.5	2153.2	2193.6	2260.2	2234.1	2237.1
45°	3657.3	3622.1	3464.9	2865.9	2405.5	2350.1	2358.3	2379.3	2477.3	2467.7	2487.1
47.5°	4072.0	4051.8	3930.6	3446.9	2862.2	2599.4	2622.6	2632.3	2773.9	2808.3	2860.7
50°	4391.0	4383.5	4275.0	3963.5	3458.9	2967.0	2975.3	2954.3	3166.1	3251.5	3351.0
52.5°	4691.9	4717.4	4637.3	4443.4	4096.0	3448.4	3446.9	3348.1	3634.0	3762.9	3932.8
55°	4963.8	4972.7	4981.0	4933.0	4736.8	3996.5	3982.2	3820.5	4176.9	4310.1	4494.3
57.5°	5219.0	5222.8	5296.2	5394.2	5403.9	4584.9	4558.7	4364.8	4769.8	4864.9	4977.9
60°	5390.5	5407.7	5562.7	5835.2	5954.2	5192.0	5177.9	4980.2	5373.3	5417.4	5396.4
62.5°	5143.4	5248.2	5639.0	6179.6	6473.8	5865.2	5858.4	5672.8	6008.1	5972.2	5792.5
65°	4163.3	4340.9	5028.1	6412.4	6983.6	6616.8	6626.5	6428.9	6660.2	6543.4	6114.4
67.5°	2912.3	3099.5	3912.6	6431.2	7553.4	7499.5	7555.7	7245.7	7352.7	7090.7	6190.8
70°	2013.9	2110.5	2639.8	6028.3	7997.4	8715.4	8713.8	8248.9	8041.5	7340.0	5801.5
72.5°	1354.3	1404.6	1714.5	4782.5	7670.9	9437.8	9394.4	9015.6	8273.6	6864.6	4739.9
75°	571.2	607.9	793.6	2687.8	6068.8	8634.5	8516.9	7967.4	7351.3	5405.4	2957.2
77.5°	181.2	196.9	312.9	962.1	3342.8	6490.3	6366.0	4975.7	4927.1	2711.7	1081.1
80°	86.1	100.3	175.9	386.3	1315.4	3530.0	3512.8	2257.3	2119.5	732.2	217.1
82.5°	37.4	44.2	97.4	206.6	588.5	1259.3	1284.7	768.1	635.6	277.8	66.6
85°	12.0	15.7	44.9	95.1	248.6	312.9	309.2	182.7	256.0	151.2	23.2
87.5°	0.0	0.0	15.0	21.7	25.4	17.9	20.2	15.7	71.1	41.9	8.2
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°	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6
2.5°	1207.7	1195.7	1174.6	1155.2	1138.0	1120.7	1110.3	1095.3	1093.8	1093.8	1097.6
5°	1215.9	1196.4	1159.0	1119.3	1073.6	1030.2	986.8	944.8	931.3	921.6	926.1
7.5°	1239.8	1209.1	1149.9	1074.3	987.5	892.5	825.7	753.9	726.2	711.2	713.5
10°	1274.3	1232.4	1142.5	1009.9	869.2	739.7	644.6	566.7	536.8	524.1	524.1
12.5°	1312.4	1260.8	1129.0	929.9	739.7	584.8	491.9	455.9	451.4	451.4	451.4
15°	1358.1	1295.2	1105.8	835.5	604.1	462.7	429.8	431.2	435.7	438.7	438.7
17.5°	1405.3	1331.9	1069.1	730.0	484.4	416.3	417.0	419.2	423.0	426.0	426.0
20°	1456.2	1368.6	1020.5	617.7	415.5	402.8	405.1	407.2	410.3	411.7	412.6
22.5°	1510.8	1403.0	962.8	507.6	392.3	391.5	392.3	394.5	398.3	398.3	399.7
25°	1569.3	1441.3	896.9	427.5	380.4	380.4	381.8	383.3	386.3	386.3	387.0
27.5°	1629.1	1476.4	827.3	385.6	369.8	369.1	369.1	371.4	372.8	373.6	374.3
30°	1695.0	1517.6	757.7	376.6	361.6	357.8	355.6	357.1	358.6	359.4	360.9
32.5°	1762.4	1557.3	695.6	380.4	353.4	346.7	339.2	337.6	337.6	340.6	342.9
35°	1837.2	1600.6	647.6	393.1	348.9	330.2	318.2	311.5	312.2	316.7	319.0
37.5°	1927.1	1653.1	612.4	404.3	345.9	311.5	292.0	283.7	278.5	283.7	282.3
40°	2044.7	1730.2	586.9	413.3	342.1	289.8	263.5	250.1	240.4	243.3	241.8
42.5°	2217.6	1851.5	577.3	414.0	333.9	264.2	234.3	216.4	202.1	202.8	199.9
45°	2460.1	2043.1	627.4	404.3	315.9	236.6	203.7	179.7	170.7	168.4	165.4
47.5°	2792.6	2322.3	743.4	384.1	289.8	209.6	173.7	153.4	146.8	143.0	140.7
50°	3238.0	2681.0	872.2	361.6	263.5	184.2	149.0	136.2	131.8	128.0	127.3
52.5°	3754.6	3044.9	977.7	339.2	237.3	161.7	133.2	125.8	122.1	119.0	118.3
55°	4228.5	3295.7	971.8	315.2	211.9	143.7	122.1	117.6	113.1	110.1	108.5
57.5°	4523.5	3330.8	801.0	288.9	182.7	129.6	111.5	108.5	103.3	99.5	98.8
60°	4659.0	3130.2	561.5	254.5	153.4	116.0	100.3	98.8	92.0	86.8	85.4
62.5°	4683.7	2757.4	374.3	211.9	128.0	103.3	89.1	86.8	77.9	68.9	64.4
65°	4583.4	2224.4	259.0	165.4	109.3	89.8	76.4	71.9	62.1	53.2	50.1
67.5°	4265.9	1561.7	180.4	119.0	92.9	71.1	60.7	59.1	51.7	44.2	41.9
70°	3684.3	890.2	120.5	89.1	73.4	48.7	47.9	49.4	41.9	36.0	32.9
72.5°	2824.8	407.2	74.8	65.1	50.1	32.9	38.2	38.9	32.2	27.0	24.0
75°	1662.9	174.5	47.2	41.9	25.4	21.7	27.7	28.5	21.7	17.2	15.0
77.5°	566.0	65.9	29.9	24.7	12.7	12.0	17.9	17.9	12.0	6.8	5.2
80°	128.7	24.7	15.0	9.7	5.9	5.2	5.9	5.2	3.0	0.7	0.0
82.5°	36.7	9.7	5.9	3.8	2.3	2.3	0.7	0.0	0.0	0.0	0.0
85°	10.5	4.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	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)