

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: P964052

Luminaire Tested: **NAV-SB3B-735-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964052
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-SB3B-735-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

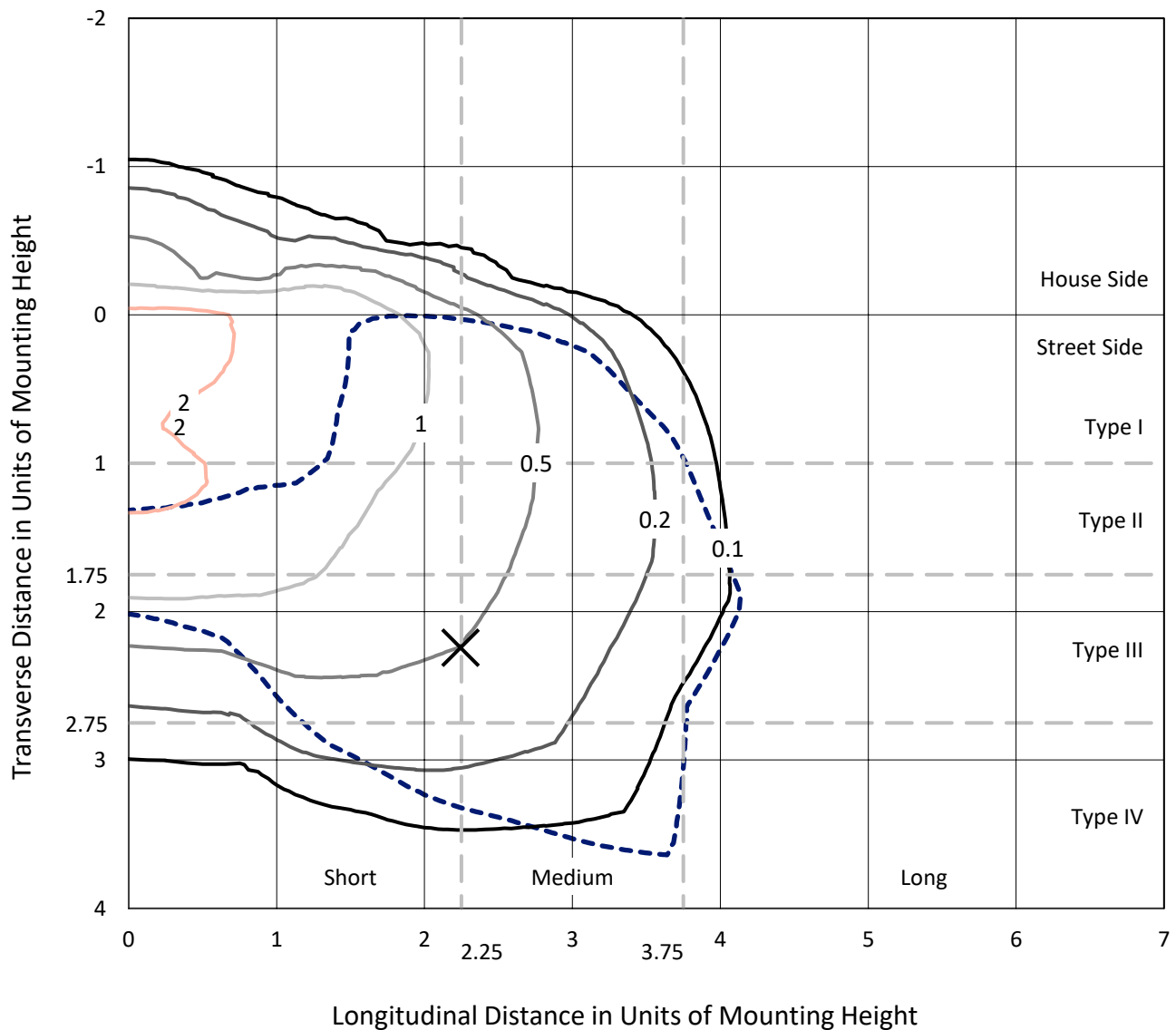
Lumens per Lamp: N/A
Luminaire Lumens: 13339.3 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 109.2
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



Iso-Footcandle Lines of Horizontal Illumination

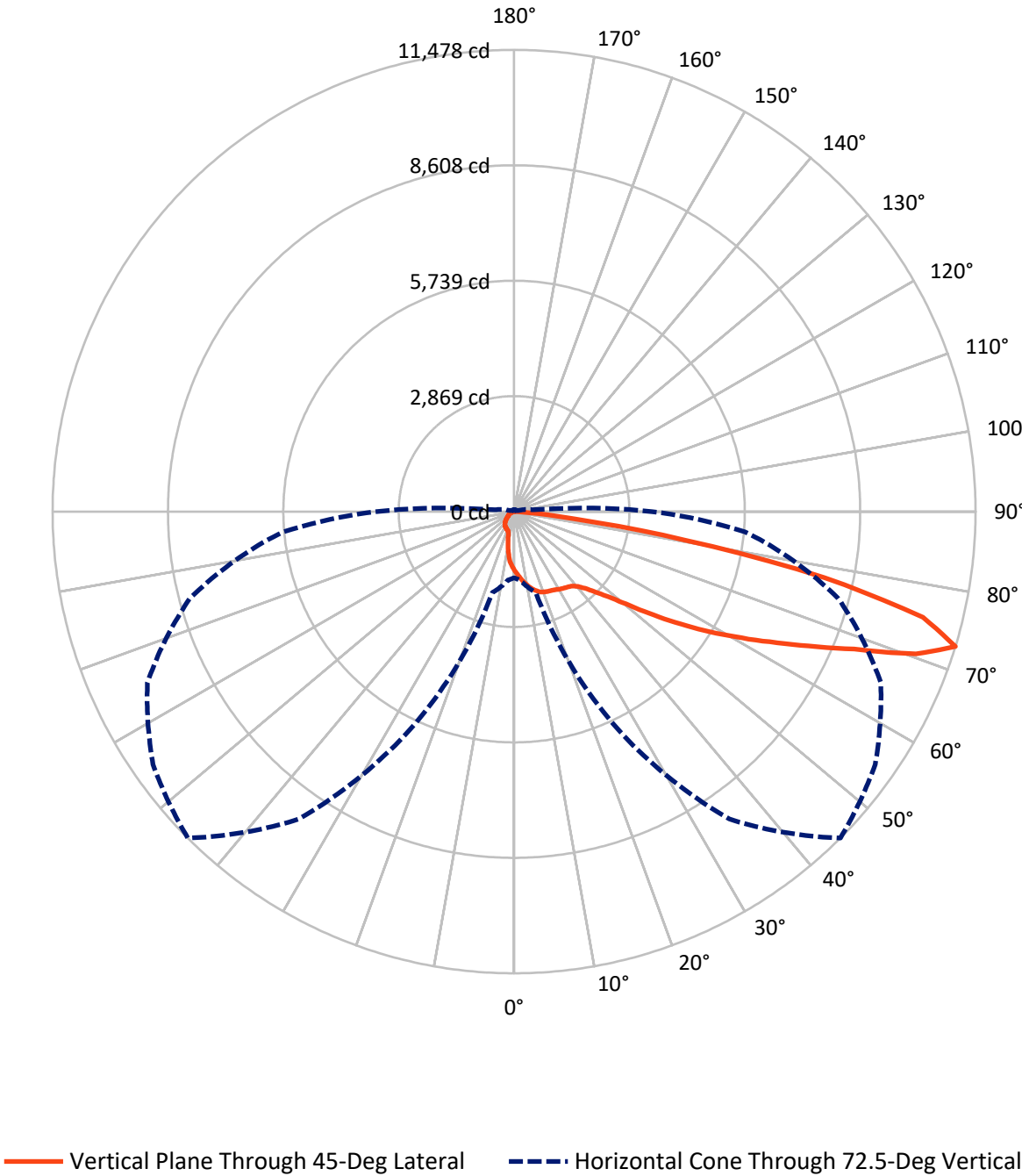
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	1401.6	0.0	1401.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11937.7	0.0	11937.7
	% Fixture	89.5	0.0	89.5
Total	Lumens	13339.3	0.0	13339.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	1.0
10°-20°	402.4	3.0
20°-30°	660.8	5.0
30°-40°	937.2	7.0
40°-50°	1549.1	11.6
50°-60°	2782.7	20.9
60°-70°	3864.0	29.0
70°-80°	2802.8	21.0
80°-90°	202.6	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°	13339.3	100.0
0°-180°	13339.3	100.0

Coefficient of Utilization



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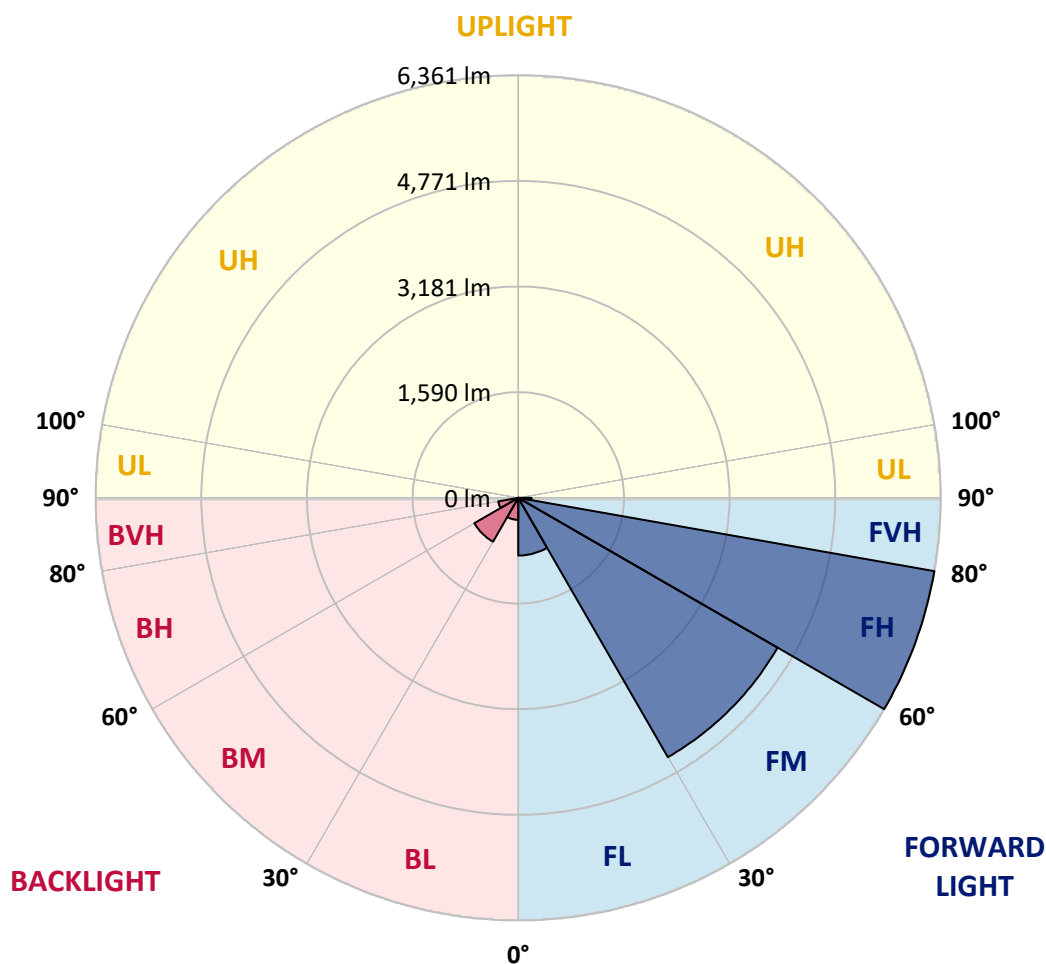
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	868.9	6.5			
FM	(30°-60°)	4506.7	33.8			
FH	(60°-80°)	6361.2	47.7			G3/7500
FVH	(80°-90°)	200.9	1.5			G2/225
BL	(0°-30°)	332.0	2.5	B1/500		
BM	(30°-60°)	762.3	5.7	B1/1000		
BH	(60°-80°)	305.6	2.3	B1/500		G1/500
BVH	(80°-90°)	1.7	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°	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3
2.5°	1596.1	1598.8	1597.1	1586.1	1567.8	1557.9	1552.4	1534.2	1522.3	1501.4	1479.6
5°	1742.7	1753.7	1747.2	1725.4	1690.8	1666.2	1659.0	1621.7	1587.9	1548.8	1503.3
7.5°	1898.4	1903.8	1892.0	1863.8	1817.3	1775.5	1769.2	1717.2	1663.5	1603.4	1541.5
10°	2033.2	2039.5	2021.3	1980.3	1927.5	1875.6	1866.5	1809.1	1745.5	1671.7	1592.4
12.5°	2146.0	2152.4	2128.7	2079.6	2021.3	1967.6	1958.5	1898.4	1828.3	1746.3	1648.0
15°	2231.6	2243.5	2211.6	2158.8	2096.0	2042.2	2037.7	1978.6	1910.2	1819.2	1714.5
17.5°	2281.8	2293.5	2263.5	2199.8	2146.0	2100.5	2095.1	2045.9	1982.1	1894.7	1779.1
20°	2290.0	2300.8	2268.9	2213.4	2168.8	2132.4	2129.6	2094.2	2047.7	1963.9	1849.2
22.5°	2265.4	2279.0	2249.9	2205.2	2174.2	2155.2	2151.5	2131.5	2105.0	2034.0	1914.8
25°	2239.8	2250.8	2228.9	2189.7	2173.4	2171.6	2174.2	2170.6	2165.2	2105.0	1991.3
27.5°	2238.0	2249.9	2225.3	2188.0	2178.8	2197.9	2200.7	2218.0	2222.5	2169.7	2065.1
30°	2253.5	2261.7	2238.0	2198.8	2194.3	2238.0	2238.9	2269.9	2277.1	2224.4	2137.8
32.5°	2287.2	2296.3	2272.6	2215.2	2208.9	2269.9	2272.6	2313.6	2325.4	2282.7	2214.3
35°	2366.4	2377.3	2350.0	2260.7	2238.0	2299.9	2308.1	2356.4	2380.0	2344.6	2293.5
37.5°	2563.9	2532.1	2494.7	2352.8	2304.5	2347.2	2360.9	2417.4	2459.3	2418.3	2388.2
40°	3054.7	2954.6	2838.0	2509.3	2421.0	2448.3	2459.3	2515.8	2573.1	2533.0	2518.4
42.5°	3791.4	3673.0	3485.4	2869.9	2596.7	2610.4	2618.6	2667.8	2748.8	2717.0	2720.6
45°	4447.8	4405.0	4213.8	3485.4	2925.5	2858.1	2868.1	2893.6	3012.9	3001.0	3024.7
47.5°	4952.2	4927.6	4780.1	4191.9	3480.8	3161.3	3189.5	3201.3	3373.4	3415.3	3479.1
50°	5340.0	5331.0	5199.0	4820.2	4206.5	3608.3	3618.4	3592.8	3850.5	3954.3	4075.4
52.5°	5706.1	5737.0	5639.7	5403.8	4981.4	4193.8	4191.9	4071.7	4419.6	4576.2	4782.9
55°	6036.6	6047.5	6057.5	5999.3	5760.7	4860.2	4842.9	4646.3	5079.7	5241.7	5465.7
57.5°	6347.1	6351.6	6440.9	6560.2	6572.0	5575.9	5544.0	5308.3	5800.8	5916.4	6054.0
60°	6555.6	6576.5	6765.0	7096.5	7241.2	6314.3	6297.0	6056.6	6534.7	6588.4	6562.9
62.5°	6255.2	6382.6	6857.9	7515.3	7873.1	7132.9	7124.7	6898.9	7306.8	7263.0	7044.5
65°	5063.3	5279.1	6114.9	7798.4	8493.2	8047.0	8058.9	7818.5	8099.9	7957.8	7436.1
67.5°	3541.9	3769.4	4758.3	7821.2	9186.0	9120.4	9188.8	8811.8	8942.0	8623.3	7528.9
70°	2449.2	2566.7	3210.4	7331.3	9726.0	10599.1	10597.4	10031.9	9779.7	8926.5	7055.5
72.5°	1647.1	1708.1	2085.1	5816.3	9329.0	11477.7	11425.0	10964.2	10061.9	8348.4	5764.4
75°	694.7	739.3	965.1	3268.7	7380.5	10500.8	10357.8	9689.5	8940.3	6573.8	3596.5
77.5°	220.4	239.4	380.6	1170.0	4065.4	7893.1	7742.0	6051.2	5992.0	3297.8	1314.8
80°	104.8	122.0	213.9	469.9	1599.7	4293.0	4272.1	2745.2	2577.7	890.5	264.0
82.5°	45.5	53.7	118.4	251.3	715.7	1531.5	1562.4	934.2	773.1	337.8	81.1
85°	14.6	19.2	54.6	115.6	302.3	380.6	376.1	222.1	311.4	183.9	28.2
87.5°	0.0	0.0	18.2	26.4	31.0	21.8	24.6	19.2	86.5	50.9	10.0
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°	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3	1461.3
2.5°	1468.6	1454.1	1428.5	1404.9	1384.0	1363.0	1350.2	1332.1	1330.2	1330.2	1334.8
5°	1478.7	1455.0	1409.5	1361.2	1305.6	1252.9	1200.1	1149.0	1132.6	1120.8	1126.3
7.5°	1507.8	1470.5	1398.5	1306.6	1201.0	1085.3	1004.3	916.9	883.1	865.0	867.7
10°	1549.7	1498.7	1389.4	1228.3	1057.1	899.5	783.9	689.2	652.8	637.3	637.3
12.5°	1596.1	1533.3	1373.0	1130.9	899.5	711.1	598.2	554.5	549.0	549.0	549.0
15°	1651.7	1575.1	1344.8	1016.1	734.8	562.7	522.6	524.5	529.9	533.5	533.5
17.5°	1709.0	1619.8	1300.2	887.8	589.1	506.2	507.2	509.8	514.4	518.0	518.0
20°	1770.9	1664.4	1241.0	751.1	505.3	489.8	492.6	495.3	499.0	500.8	501.6
22.5°	1837.4	1706.3	1170.9	617.4	477.1	476.2	477.1	479.8	484.4	484.4	486.2
25°	1908.4	1752.7	1090.8	519.9	462.6	462.6	464.3	466.2	469.9	469.9	470.7
27.5°	1981.2	1795.5	1006.1	468.9	449.8	448.8	448.8	451.6	453.5	454.4	455.2
30°	2061.4	1845.6	921.5	458.0	439.7	435.2	432.4	434.3	436.1	437.1	438.9
32.5°	2143.3	1893.9	845.8	462.6	429.8	421.6	412.5	410.6	410.6	414.3	417.0
35°	2234.4	1946.7	787.6	478.1	424.2	401.5	386.9	378.7	379.7	385.1	387.9
37.5°	2343.7	2010.4	744.8	491.7	420.7	378.7	355.1	345.1	338.7	345.1	343.3
40°	2486.5	2104.1	713.8	502.6	416.2	352.4	320.5	304.1	292.2	295.9	294.1
42.5°	2696.9	2251.7	702.0	503.5	406.1	321.4	285.0	263.1	245.8	246.7	243.1
45°	2991.9	2484.8	763.0	491.7	384.3	287.7	247.6	218.5	207.6	204.9	201.2
47.5°	3396.1	2824.4	904.2	467.1	352.4	254.9	211.3	186.7	178.5	173.9	171.2
50°	3937.9	3260.5	1060.8	439.7	320.5	224.0	181.2	165.7	160.2	155.7	154.8
52.5°	4566.2	3703.0	1189.1	412.5	288.6	196.7	162.1	152.9	148.4	144.7	143.9
55°	5142.5	4008.1	1181.8	383.3	257.7	174.9	148.4	143.0	137.5	133.9	132.0
57.5°	5501.3	4050.8	974.3	351.5	222.1	157.5	135.7	132.0	125.7	121.1	120.2
60°	5666.1	3806.8	682.9	309.5	186.7	141.1	122.0	120.2	112.0	105.6	103.8
62.5°	5696.1	3353.4	455.2	257.7	155.7	125.7	108.3	105.6	94.7	83.7	78.3
65°	5574.1	2705.1	315.0	201.2	132.9	109.3	92.9	87.4	75.5	64.7	61.0
67.5°	5188.0	1899.3	219.5	144.7	112.9	86.5	73.8	72.0	62.8	53.7	50.9
70°	4480.6	1082.6	146.6	108.3	89.3	59.1	58.3	60.1	50.9	43.7	40.1
72.5°	3435.3	495.3	91.0	79.2	61.0	40.1	46.4	47.4	39.2	32.8	29.1
75°	2022.2	212.2	57.4	50.9	31.0	26.4	33.7	34.6	26.4	20.9	18.2
77.5°	688.4	80.2	36.4	30.0	15.5	14.6	21.8	21.8	14.6	8.2	6.4
80°	156.6	30.0	18.2	11.8	7.3	6.4	7.3	6.4	3.7	0.9	0.0
82.5°	44.6	11.8	7.3	4.5	2.8	2.8	0.9	0.0	0.0	0.0	0.0
85°	12.7	5.4	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	0.9	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)