

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: P961924

Luminaire Tested: **NAV-SB2B-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2B-735-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11281.2 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

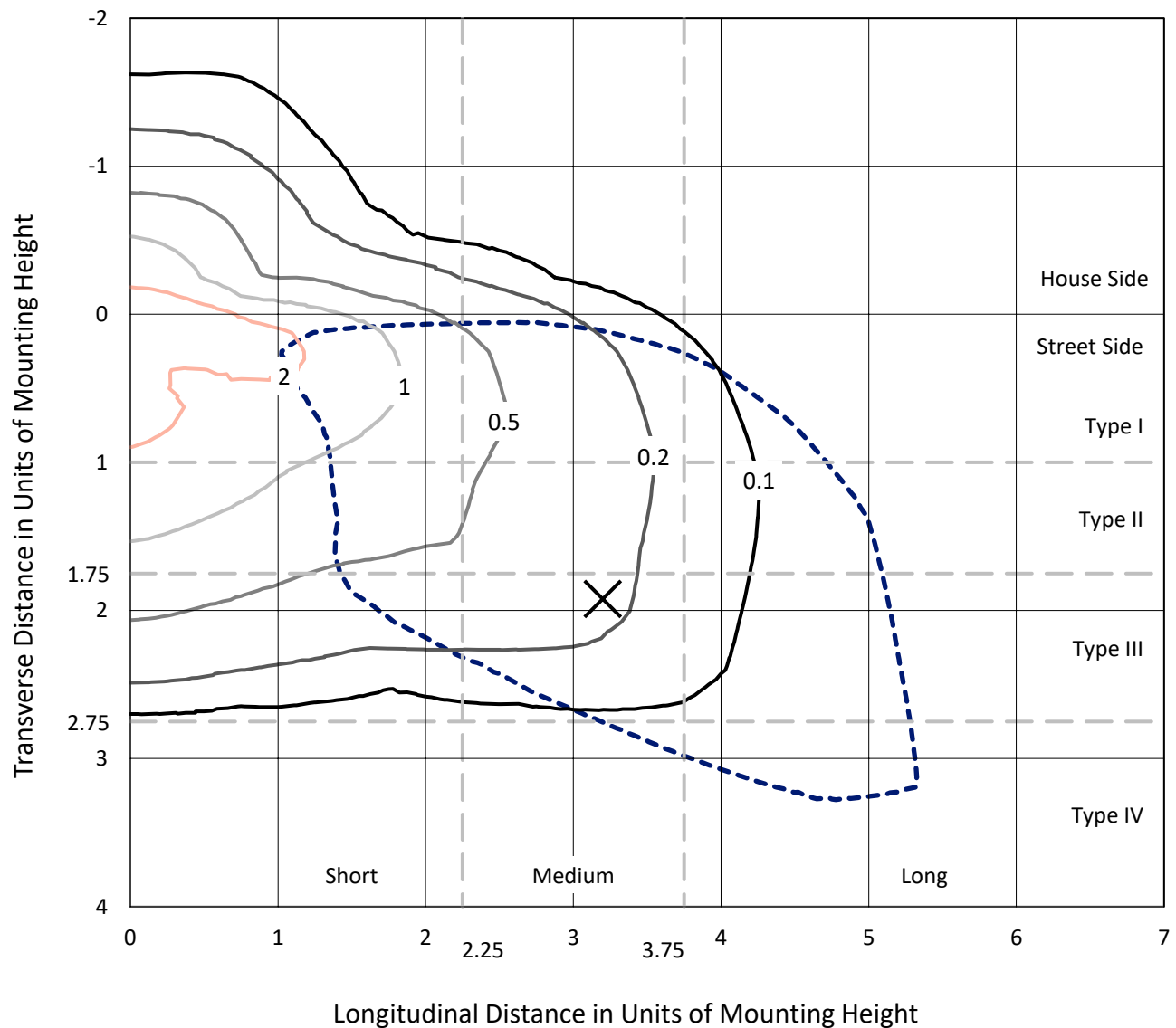
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961924
CATALOG NUMBER: NAV-SB2B-735-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

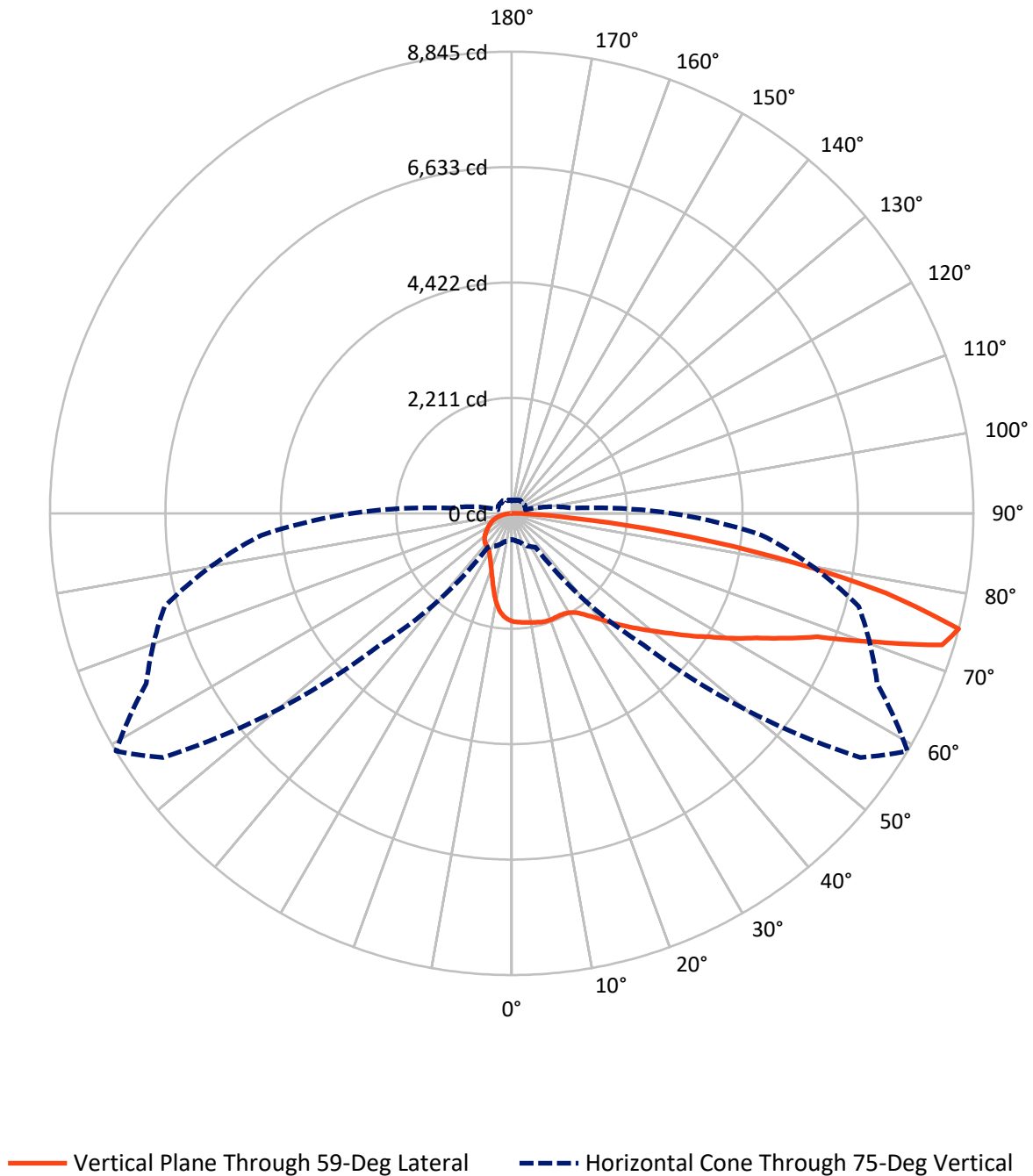
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type IV - Medium - N/A

REPORT NUMBER: P961924
CATALOG NUMBER: NAV-SB2B-735-U-SL3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2115.9	0.0	2115.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9165.3	0.0	9165.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	11281.2	0.0	11281.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.7	1.6
10°-20°	474.6	4.2
20°-30°	720.8	6.4
30°-40°	1071.5	9.5
40°-50°	1593.5	14.1
50°-60°	2163.0	19.2
60°-70°	2640.7	23.4
70°-80°	2072.4	18.4
80°-90°	359.0	3.2
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°	11281.2	100.0
0°-180°	11281.2	100.0

Coefficient of Utilization



REPORT NUMBER: P961924

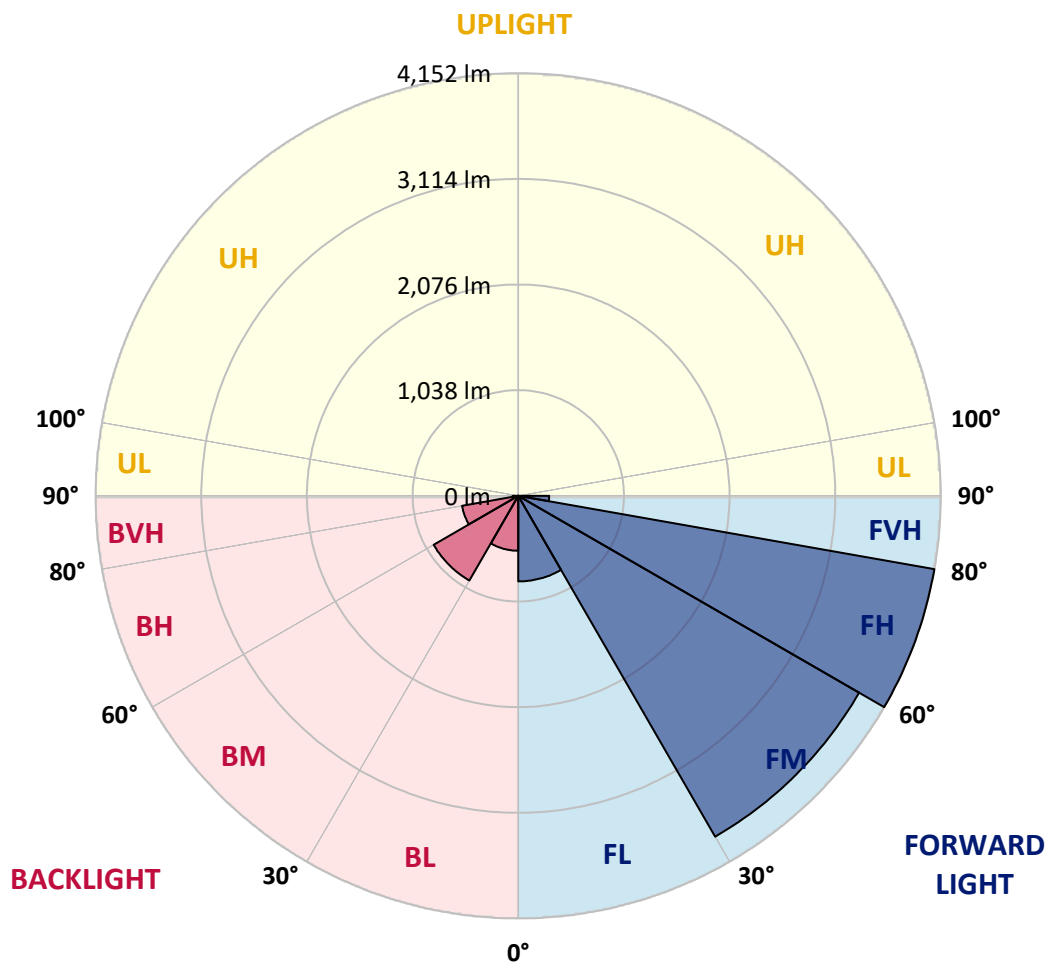
CATALOG NUMBER: NAV-SB2B-735-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	841.1	7.5			
FM	(30°-60°)	3867.7	34.3			
FH	(60°-80°)	4152.5	36.8			G2/5000
FVH	(80°-90°)	304.0	2.7			G3/500
BL	(0°-30°)	539.9	4.8	B2/1000		
BM	(30°-60°)	960.4	8.5	B1/1000		
BH	(60°-80°)	560.6	5.0	B2/1000		G2/1000
BVH	(80°-90°)	55.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



REPORT NUMBER: P961924

CATALOG NUMBER: NAV-SB2B-735-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6
2.5°	2088.2	2081.0	2088.2	2085.2	2084.0	2081.6	2082.2	2086.4	2084.0	2087.0	2076.6
5°	2074.3	2070.0	2077.3	2075.5	2083.4	2084.5	2092.4	2097.4	2100.3	2100.9	2093.0
7.5°	2051.2	2046.9	2057.3	2065.8	2082.8	2087.6	2104.0	2111.9	2116.1	2123.4	2111.9
10°	1966.9	1965.0	1990.5	2022.7	2062.7	2087.6	2112.5	2125.8	2132.5	2152.0	2138.6
12.5°	1817.5	1820.0	1853.4	1915.3	1995.4	2075.5	2122.3	2141.6	2152.0	2176.2	2170.1
15°	1675.0	1674.3	1710.7	1776.9	1889.2	2022.1	2127.1	2160.5	2178.0	2213.9	2209.0
17.5°	1592.4	1590.0	1615.5	1665.8	1770.3	1940.1	2114.9	2170.7	2208.4	2253.3	2249.1
20°	1577.3	1572.4	1585.8	1610.6	1684.7	1850.3	2083.4	2170.7	2232.7	2290.9	2288.5
22.5°	1632.5	1624.6	1619.1	1616.1	1648.8	1776.3	2047.5	2163.5	2268.4	2344.9	2340.7
25°	1743.5	1731.4	1703.4	1676.2	1666.4	1742.9	2016.0	2161.6	2321.8	2417.8	2402.0
27.5°	1923.2	1908.0	1851.6	1786.0	1727.1	1759.9	2002.0	2172.6	2380.8	2494.8	2463.3
30°	2145.8	2129.5	2058.5	1957.7	1852.2	1823.1	2019.7	2204.8	2456.0	2597.4	2535.4
32.5°	2345.5	2327.4	2266.7	2164.1	2021.5	1932.2	2075.5	2266.1	2574.3	2740.0	2644.1
35°	2522.7	2501.5	2446.9	2352.2	2229.1	2085.8	2176.2	2374.7	2742.4	2971.8	2791.6
37.5°	2696.3	2671.5	2611.9	2511.9	2425.7	2290.4	2315.2	2514.2	2965.7	3253.5	2987.0
40°	2890.5	2854.7	2782.5	2683.6	2599.8	2530.0	2497.8	2685.4	3192.8	3567.8	3231.0
42.5°	3078.6	3044.7	2958.5	2874.1	2769.1	2749.2	2709.7	2885.7	3440.9	3913.0	3478.5
45°	3281.3	3240.6	3136.3	3029.5	2963.4	2894.8	2914.8	3086.0	3684.3	4265.0	3738.3
47.5°	3471.3	3425.8	3302.6	3183.6	3147.3	3017.3	3102.9	3306.2	3937.3	4621.9	3995.7
50°	3573.9	3529.0	3426.4	3319.0	3290.5	3168.5	3306.9	3548.3	4202.6	4977.5	4242.6
52.5°	3659.5	3610.9	3476.7	3417.2	3408.7	3332.9	3558.1	3825.1	4467.8	5291.9	4481.1
55°	3750.5	3696.5	3525.3	3471.9	3510.7	3517.4	3856.0	4138.8	4748.1	5598.3	4706.3
57.5°	3855.4	3786.9	3572.0	3518.0	3610.3	3733.5	4198.3	4464.1	5023.6	5882.4	4906.5
60°	3954.3	3885.2	3661.8	3591.4	3717.7	3984.1	4591.0	4858.0	5335.5	6135.4	5095.9
62.5°	3973.7	3916.7	3733.5	3732.8	3863.3	4276.6	5055.8	5255.5	5608.1	6385.4	5265.8
65°	3637.5	3601.7	3493.1	3727.4	4072.1	4697.8	5573.4	5764.0	5954.5	6604.0	5415.1
67.5°	2768.5	2773.3	2765.4	3217.6	3903.4	5302.8	6322.9	6308.4	6382.5	6849.0	5586.9
70°	1265.9	1294.5	1480.1	2221.2	3127.2	5372.6	7562.1	7373.4	6919.5	7166.5	5735.5
72.5°	684.0	705.8	781.7	1075.9	1880.1	4776.6	8488.2	8622.4	7633.8	7380.1	5572.2
75°	501.8	514.0	566.8	684.0	789.6	3550.2	8156.3	8844.5	7723.0	6881.8	4811.9
77.5°	375.7	381.1	424.2	541.9	404.2	1871.5	6517.2	7324.9	6611.2	5654.2	3554.4
80°	272.4	278.6	310.7	406.6	283.4	684.5	4475.0	5141.4	4527.8	3604.2	1771.4
82.5°	188.1	190.5	204.5	276.8	197.8	265.8	2539.1	3014.9	2527.6	1264.7	478.2
85°	113.5	116.5	122.6	161.4	112.2	126.2	1096.0	1133.6	755.5	302.2	148.7
87.5°	46.7	49.7	54.6	68.0	44.3	35.2	180.8	226.9	141.4	88.6	46.1
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: P961924

CATALOG NUMBER: NAV-SB2B-735-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6
2.5°	2073.7	2069.4	2057.9	2042.1	2027.6	2009.3	2001.4	1994.8	1988.7	1977.1	1971.7
5°	2086.4	2074.9	2044.0	2003.9	1958.4	1908.5	1860.1	1826.7	1798.2	1776.9	1759.3
7.5°	2105.9	2084.0	2027.6	1945.7	1841.2	1734.4	1637.9	1569.4	1517.8	1499.0	1466.2
10°	2125.8	2099.7	2001.4	1857.0	1676.8	1512.3	1384.3	1313.8	1272.6	1259.2	1238.6
12.5°	2149.5	2111.3	1960.8	1733.8	1492.9	1312.6	1201.0	1159.7	1138.5	1131.2	1133.0
15°	2184.1	2121.0	1899.5	1579.6	1317.5	1167.0	1094.8	1066.3	1055.3	1054.7	1057.2
17.5°	2210.2	2122.8	1804.2	1414.6	1182.7	1079.0	1019.6	1008.6	1015.9	1026.8	1031.0
20°	2239.3	2106.5	1679.2	1264.1	1088.1	1001.9	977.0	984.3	1001.9	1017.7	1023.2
22.5°	2260.0	2076.6	1528.1	1147.0	1006.1	957.7	956.4	971.6	981.3	989.2	993.4
25°	2278.2	2026.3	1367.9	1048.7	938.8	930.9	944.3	939.4	932.7	939.4	943.7
27.5°	2291.5	1946.8	1224.7	962.5	891.4	912.8	904.9	893.9	893.3	897.0	903.0
30°	2287.3	1840.6	1106.9	880.6	858.1	878.7	860.0	858.1	856.3	858.1	864.8
32.5°	2287.3	1719.8	1016.5	824.1	836.9	829.0	827.2	822.9	815.6	815.0	822.9
35°	2300.0	1599.1	938.8	793.8	819.3	800.4	801.7	791.4	776.2	768.9	776.2
37.5°	2326.1	1502.0	861.7	779.2	788.3	787.7	782.9	765.3	738.5	715.4	723.3
40°	2389.3	1473.4	808.9	772.5	773.8	781.0	768.3	734.3	673.6	636.0	640.8
42.5°	2488.2	1521.4	797.4	756.1	764.0	771.3	746.4	667.6	624.4	602.0	602.0
45°	2613.8	1605.1	822.3	732.5	741.0	753.7	679.7	642.1	622.7	623.3	626.3
47.5°	2772.7	1693.2	868.4	711.9	707.6	714.9	635.4	612.3	585.6	592.3	609.3
50°	2956.6	1782.4	912.1	684.0	670.6	646.9	606.9	585.1	551.0	535.3	539.5
52.5°	3155.7	1868.6	929.7	650.0	630.6	603.2	587.4	560.8	519.5	493.3	492.8
55°	3344.5	1946.8	910.3	609.3	590.5	569.3	566.8	550.4	506.1	469.8	469.8
57.5°	3522.8	2012.4	861.7	568.1	549.8	537.1	553.5	545.6	489.7	443.0	440.5
60°	3674.0	2057.3	791.4	526.1	513.4	506.8	531.6	529.2	466.7	414.5	412.7
62.5°	3794.1	2074.9	713.7	486.1	483.1	470.9	501.2	501.2	437.6	386.5	384.8
65°	3888.2	2057.9	634.8	446.7	452.7	434.5	464.2	460.6	406.6	361.7	359.3
67.5°	3971.4	2002.0	547.3	407.8	421.8	398.7	425.4	416.9	372.6	336.8	334.4
70°	4008.4	1872.2	447.8	369.0	386.0	363.5	386.5	370.8	334.4	310.1	305.2
72.5°	3711.0	1556.1	352.6	328.3	342.9	324.7	344.7	326.5	293.2	282.2	273.1
75°	3070.2	1167.6	271.3	284.0	294.9	281.0	294.4	281.0	250.6	258.5	236.1
77.5°	2229.6	788.3	207.6	237.3	242.1	234.8	246.4	231.2	203.9	202.1	193.0
80°	1108.7	461.9	162.7	187.5	185.7	180.8	194.2	187.0	163.9	173.5	171.8
82.5°	321.0	197.8	118.4	131.7	128.0	129.3	139.0	142.6	213.6	211.8	216.7
85°	100.8	77.7	71.0	73.4	69.8	71.6	81.9	162.7	150.5	87.9	95.3
87.5°	26.1	26.8	17.6	18.9	19.4	23.1	26.1	98.9	47.4	31.0	32.8
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)