

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: P964195

Luminaire Tested: **NAV-SB3B-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3B-830-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11363.2 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

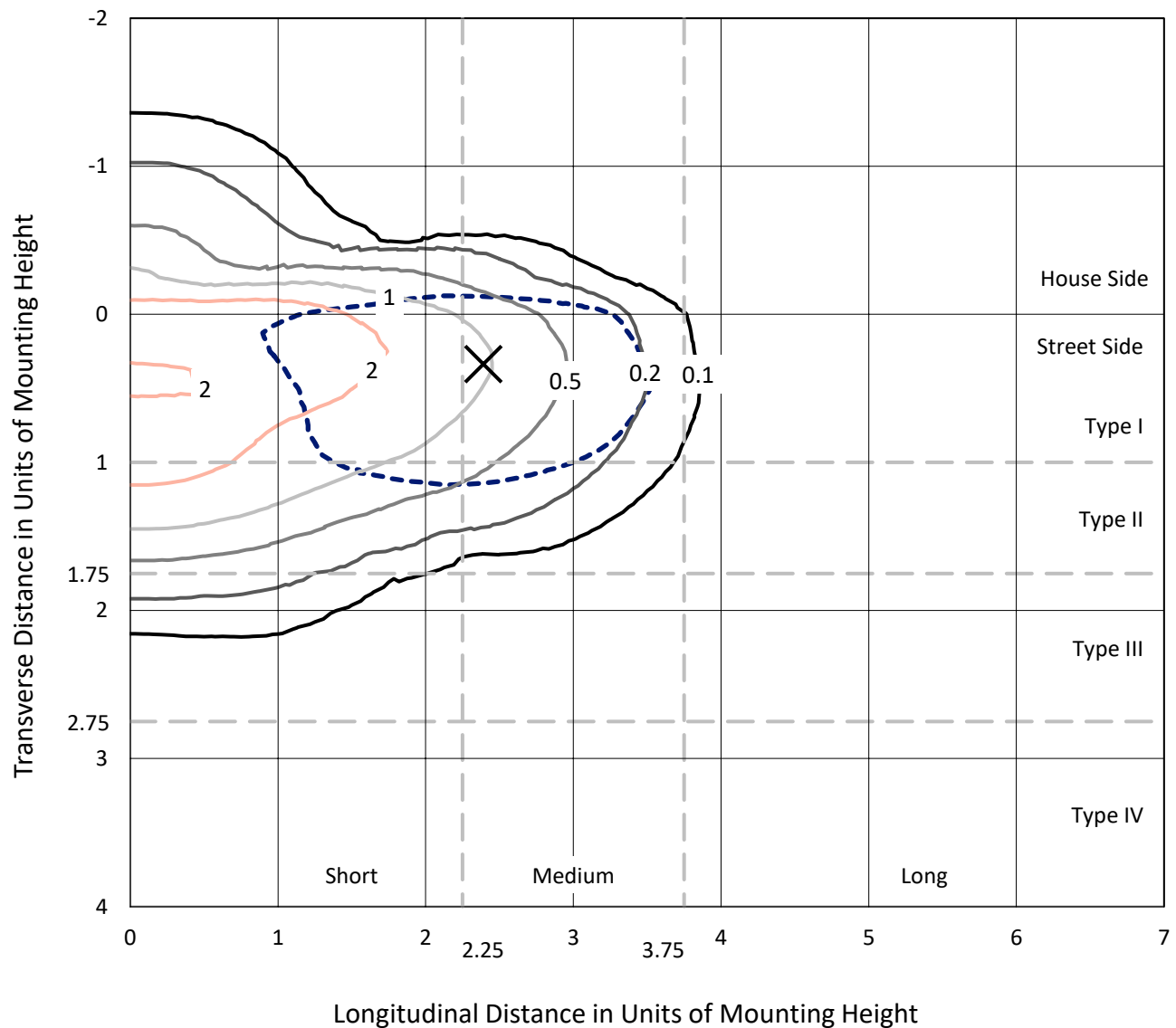


REPORT NUMBER: P964195

CATALOG NUMBER: NAV-SB3B-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

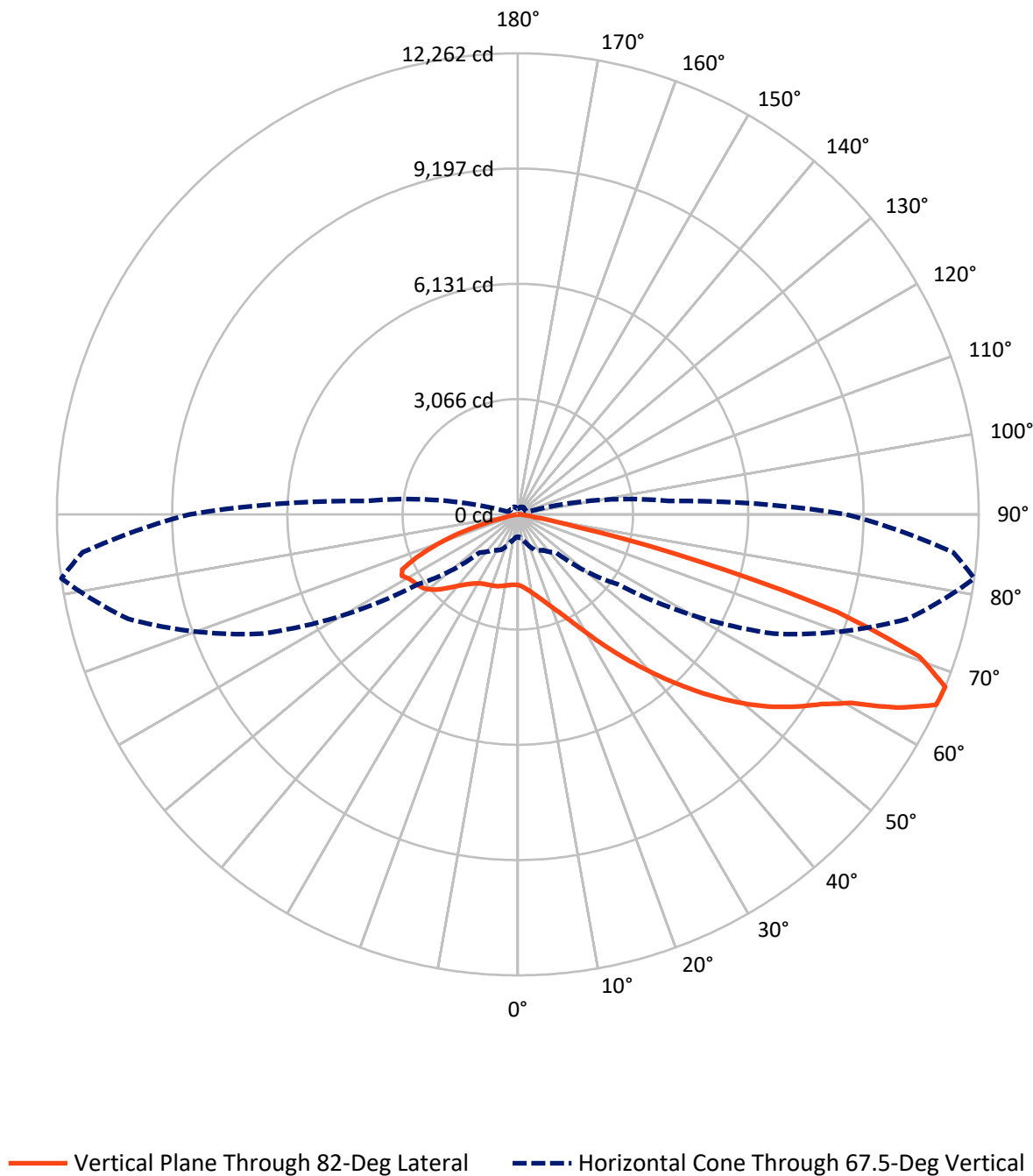


Based on 25 foot mounting height. Maximum calculated value = 4 fc
Type II - Medium - N/A

REPORT NUMBER: P964195

CATALOG NUMBER: NAV-SB3B-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P964195

CATALOG NUMBER: NAV-SB3B-830-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2058.4	0.0	2058.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9304.8	0.0	9304.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	11363.2	0.0	11363.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.7	1.5
10°-20°	435.8	3.8
20°-30°	698.1	6.1
30°-40°	1234.4	10.9
40°-50°	2162.7	19.0
50°-60°	2884.5	25.4
60°-70°	2685.3	23.6
70°-80°	1030.6	9.1
80°-90°	64.0	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°	11363.2	100.0
0°-180°	11363.2	100.0

Coefficient of Utilization



REPORT NUMBER: P964195

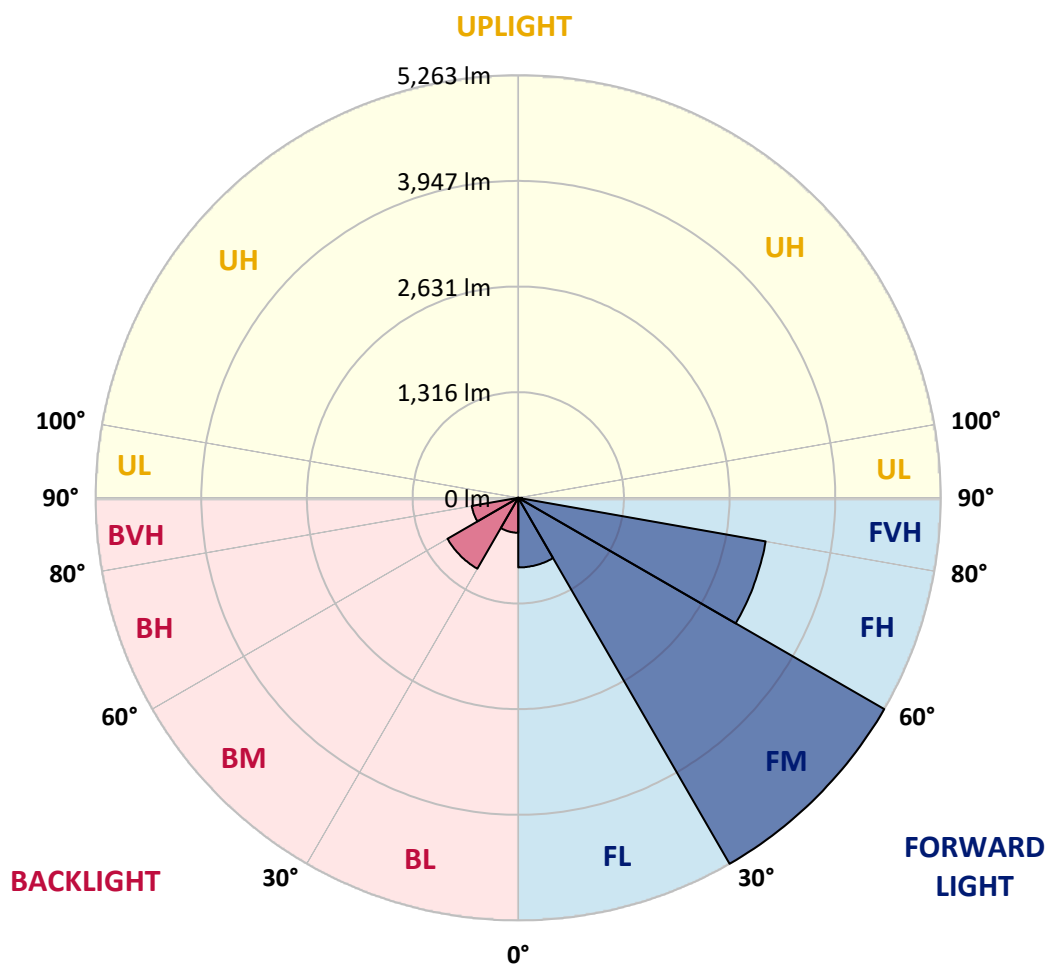
CATALOG NUMBER: NAV-SB3B-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	866.9	7.6			
FM	(30°-60°)	5262.9	46.3			
FH	(60°-80°)	3128.4	27.5			G2/5000
FVH	(80°-90°)	46.5	0.4			G1/100
BL	(0°-30°)	434.7	3.8	B1/500		
BM	(30°-60°)	1018.7	9.0	B2/2500		
BH	(60°-80°)	587.5	5.2	B2/1000		G2/1000
BVH	(80°-90°)	17.5	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



REPORT NUMBER: P964195

CATALOG NUMBER: NAV-SB3B-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5
2.5°	1989.6	2001.1	1994.5	1991.3	1985.5	1977.4	1970.9	1950.4	1929.2	1915.2	1910.3
5°	2029.7	2041.2	2040.4	2043.6	2047.7	2050.2	2048.6	2025.7	1995.4	1971.7	1957.7
7.5°	1995.4	2008.5	2019.1	2035.4	2064.1	2094.4	2109.1	2104.2	2073.1	2040.4	2023.2
10°	1898.0	1911.9	1937.4	1975.8	2036.3	2101.8	2156.6	2181.9	2162.2	2126.3	2102.6
12.5°	1719.6	1733.6	1783.5	1866.9	1968.4	2082.1	2186.8	2254.7	2259.6	2223.6	2195.9
15°	1519.3	1533.2	1586.3	1691.0	1845.7	2028.1	2203.2	2331.7	2375.0	2343.9	2310.4
17.5°	1394.9	1407.1	1447.3	1531.6	1692.7	1920.1	2197.5	2413.5	2512.5	2487.9	2447.8
20°	1357.3	1367.9	1386.7	1445.7	1579.8	1808.0	2159.9	2490.3	2660.5	2646.7	2601.7
22.5°	1397.4	1407.1	1412.9	1439.1	1523.4	1734.4	2112.4	2568.9	2832.3	2833.9	2779.2
25°	1489.8	1499.6	1493.0	1509.4	1546.2	1711.5	2094.4	2661.3	3048.4	3066.3	3004.2
27.5°	1641.9	1642.8	1627.2	1626.4	1632.1	1745.9	2113.2	2760.3	3320.7	3354.3	3277.3
30°	1947.1	1934.9	1875.1	1810.5	1781.0	1849.0	2165.5	2877.3	3642.2	3702.0	3605.4
32.5°	2417.6	2399.5	2290.0	2135.3	1979.9	2015.0	2259.6	3010.6	3992.4	4100.4	3982.6
35°	2928.0	2923.1	2808.6	2578.7	2307.1	2251.4	2412.6	3185.8	4374.5	4546.3	4406.4
37.5°	3402.6	3400.1	3334.6	3063.8	2733.4	2581.2	2658.0	3414.8	4783.6	5032.2	4867.0
40°	3836.2	3843.5	3778.0	3535.9	3202.9	3004.2	2991.9	3697.9	5238.4	5561.5	5365.3
42.5°	4210.8	4219.0	4152.8	3973.6	3666.8	3472.1	3401.8	4044.8	5682.6	6130.1	5897.8
45°	4465.3	4516.0	4506.2	4363.0	4142.9	3940.9	3894.3	4480.0	6189.1	6733.1	6460.7
47.5°	4537.3	4583.9	4657.5	4677.2	4543.0	4344.3	4399.8	5004.5	6701.2	7336.8	7026.8
50°	4359.7	4403.1	4556.1	4759.8	4853.1	4791.7	4891.5	5566.5	7225.6	7939.0	7582.3
52.5°	4009.6	4053.8	4246.9	4569.1	4949.6	5142.7	5384.8	6120.4	7733.6	8509.2	8108.4
55°	3503.1	3549.8	3797.7	4162.6	4765.5	5287.5	5796.4	6673.4	8199.2	9022.3	8582.8
57.5°	2814.3	2848.7	3106.4	3616.9	4302.4	5143.6	6099.9	7277.2	8637.7	9526.1	9053.3
60°	1834.2	1864.5	2163.9	2733.4	3535.1	4662.4	6160.5	7950.5	9220.2	10181.4	9687.4
62.5°	1219.9	1240.2	1417.8	1835.9	2489.5	3738.8	5806.2	8488.0	10074.3	11321.9	10774.6
65°	836.9	857.4	1034.9	1326.1	1608.4	2473.1	4787.7	8416.8	10848.3	12227.6	11580.4
67.5°	597.3	614.4	765.0	1039.9	1164.2	1436.6	3245.5	7507.1	10737.0	12262.0	11623.8
70°	427.8	437.7	562.0	810.0	925.3	863.2	1804.7	5741.5	9401.0	11322.8	10738.6
72.5°	299.4	302.7	390.2	616.8	745.3	630.0	859.1	3828.0	7110.2	8887.3	8325.2
75°	202.8	206.9	262.6	452.4	598.1	481.0	454.9	2052.7	4174.0	4919.4	4409.7
77.5°	124.3	126.0	169.3	309.2	447.5	366.5	292.8	869.6	1615.0	1585.5	1351.6
80°	70.3	70.3	108.0	192.3	305.1	236.5	205.3	369.8	511.4	449.2	396.0
82.5°	39.3	40.1	78.5	119.4	202.0	139.9	112.9	171.0	220.9	195.6	170.1
85°	16.4	18.0	48.3	56.5	96.6	69.5	45.8	72.0	81.8	72.8	53.2
87.5°	1.6	2.5	14.8	10.7	11.5	13.9	6.6	13.9	11.5	11.5	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

REPORT NUMBER: P964195

CATALOG NUMBER: NAV-SB3B-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5	1882.5
2.5°	1894.7	1882.5	1851.4	1815.4	1767.9	1745.1	1714.0	1692.7	1674.6	1676.3	1660.0
5°	1931.6	1900.5	1831.0	1744.2	1636.2	1559.3	1477.5	1421.1	1375.2	1365.4	1343.4
7.5°	1982.4	1933.3	1811.3	1655.1	1472.6	1334.3	1210.8	1131.5	1075.0	1057.0	1039.0
10°	2047.7	1976.6	1786.0	1542.9	1280.3	1104.4	971.9	909.8	871.2	858.2	848.4
12.5°	2123.8	2026.5	1752.4	1406.3	1082.4	913.1	828.7	797.7	785.4	781.3	778.9
15°	2219.5	2088.6	1701.7	1244.4	914.6	796.0	760.0	755.9	757.6	755.9	755.1
17.5°	2333.3	2156.6	1619.1	1077.5	801.8	736.3	723.2	726.5	730.6	729.8	728.2
20°	2457.6	2223.6	1513.5	929.4	724.9	693.7	686.4	689.7	692.9	691.3	690.5
22.5°	2599.2	2295.6	1396.6	814.1	673.3	654.5	646.3	647.1	647.1	643.9	642.3
25°	2768.5	2375.0	1273.8	732.3	634.1	619.3	609.5	606.2	601.4	591.5	589.9
27.5°	2970.6	2459.3	1156.0	675.0	602.9	589.1	577.6	569.4	557.1	540.8	539.2
30°	3198.0	2561.6	1056.2	639.0	578.4	564.5	551.4	539.2	521.1	500.7	499.1
32.5°	3465.5	2671.1	983.4	615.2	556.4	541.6	526.0	511.4	491.7	471.2	472.0
35°	3784.6	2803.7	940.8	598.9	539.2	519.5	502.4	486.0	471.2	453.3	451.6
37.5°	4130.6	2944.4	927.7	590.7	527.7	497.4	477.8	466.4	464.7	454.1	453.3
40°	4509.5	3111.3	937.6	585.8	515.4	476.1	454.9	452.4	456.5	437.7	438.5
42.5°	4910.4	3309.3	954.0	580.0	498.3	454.9	434.4	434.4	431.1	405.0	405.0
45°	5343.9	3537.6	970.3	566.1	477.8	433.6	418.1	412.4	398.4	373.1	372.3
47.5°	5780.8	3769.8	982.6	540.8	453.3	415.6	401.7	388.6	368.2	345.2	344.4
50°	6195.6	3978.5	969.4	503.2	425.4	398.4	383.7	365.7	343.6	328.1	325.6
52.5°	6566.3	4159.3	913.8	459.0	396.0	380.4	367.4	348.5	330.6	314.2	312.5
55°	6888.5	4305.7	815.7	417.3	369.8	364.9	351.8	328.1	303.5	289.7	288.0
57.5°	7197.8	4417.0	692.9	382.8	346.0	347.7	328.1	306.8	283.9	269.2	267.5
60°	7609.3	4566.0	568.6	351.0	320.7	325.6	304.3	288.8	260.1	241.4	238.9
62.5°	8267.0	4797.4	451.6	311.7	291.2	292.8	283.9	265.1	230.7	208.6	206.9
65°	8789.1	4712.3	355.9	269.2	257.7	260.1	260.1	239.7	202.8	177.5	175.1
67.5°	8730.1	4034.9	283.9	227.4	225.8	227.4	233.2	216.0	180.0	159.5	156.2
70°	8042.2	3209.5	227.4	189.0	196.4	192.3	208.6	197.2	162.0	141.6	139.1
72.5°	6562.2	2312.0	173.4	156.2	150.6	157.0	188.2	177.5	135.0	112.0	109.7
75°	3834.5	1233.7	129.3	123.5	108.9	130.9	166.9	151.4	103.1	82.6	80.2
77.5°	1248.4	430.3	94.9	90.8	81.0	105.6	142.4	127.6	84.3	65.5	63.0
80°	334.6	130.1	64.7	59.8	52.4	78.5	112.9	101.5	60.6	42.5	41.7
82.5°	134.2	54.8	37.6	33.5	28.6	54.0	89.2	81.8	45.0	27.0	27.0
85°	43.4	18.0	13.9	10.7	13.1	33.5	53.2	55.7	31.9	13.9	10.7
87.5°	5.7	2.5	2.5	3.3	2.5	5.7	16.4	15.6	9.0	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)