

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: P962469

Luminaire Tested: **NAV-SB2C-735-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-735-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11623.5 lumens
Efficiency: N/A
Efficacy: 115.2 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

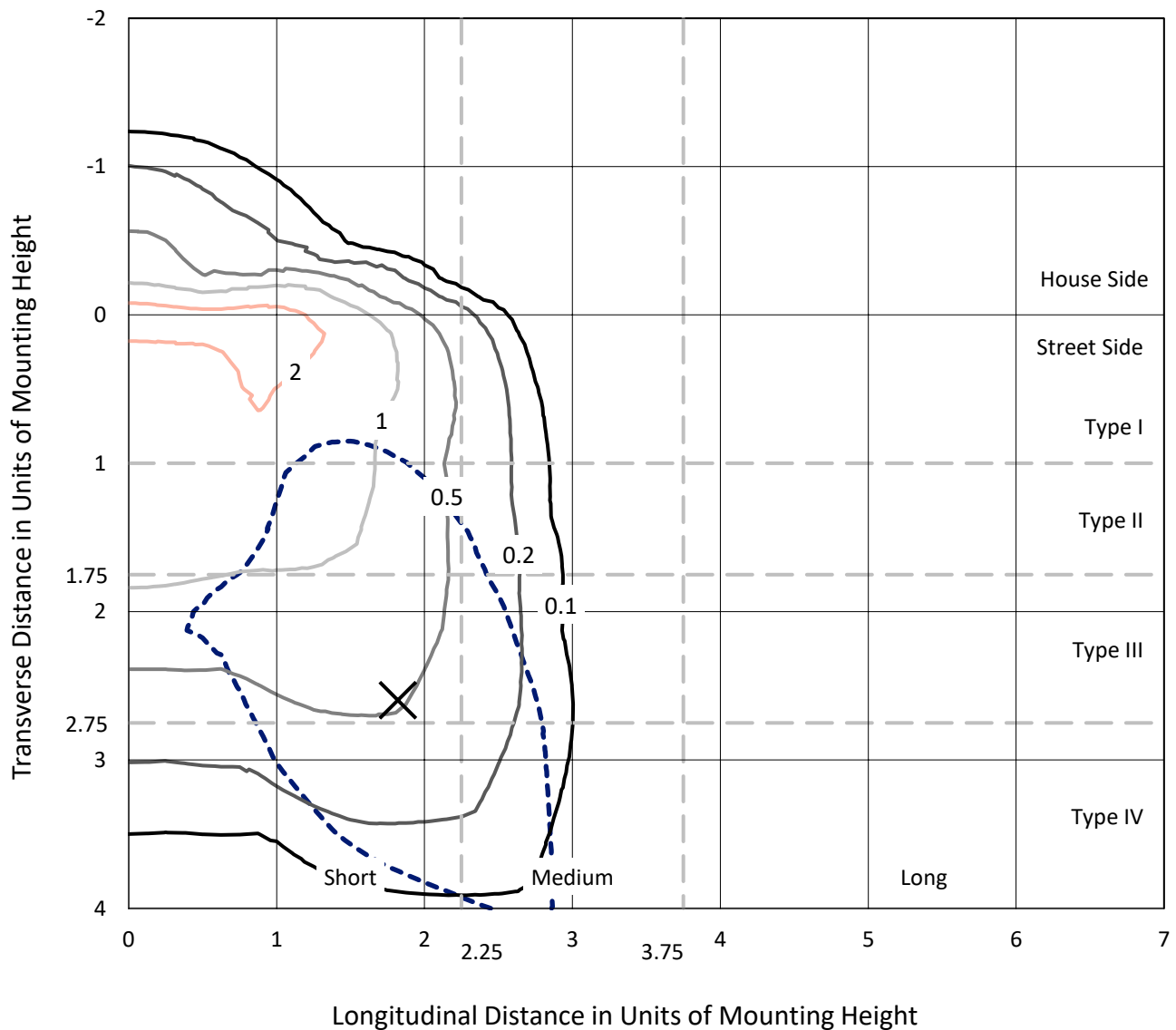


REPORT NUMBER: P962469

CATALOG NUMBER: NAV-SB2C-735-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

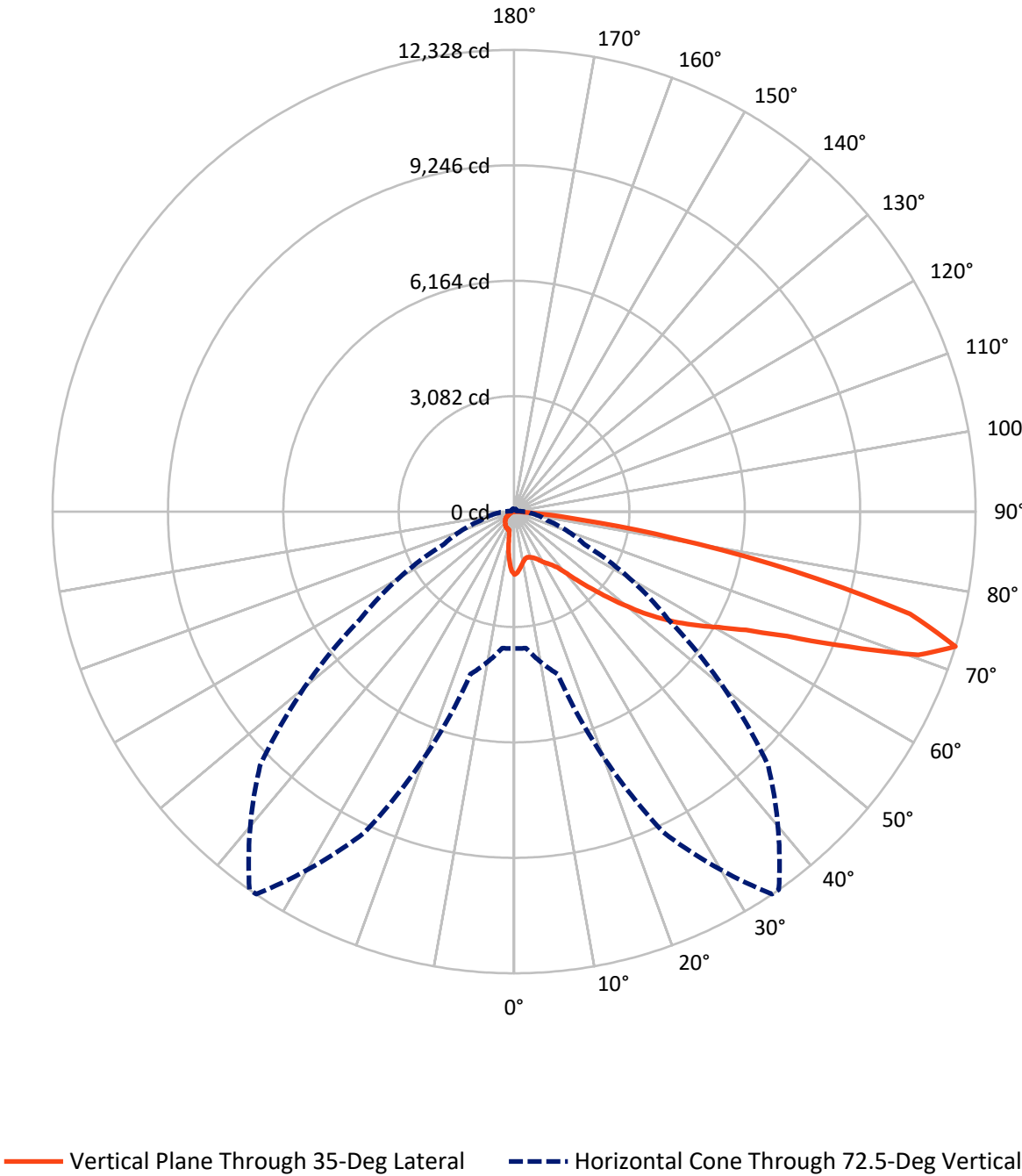
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type IV - Short - N/A

REPORT NUMBER: P962469
CATALOG NUMBER: NAV-SB2C-735-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P962469

CATALOG NUMBER: NAV-SB2C-735-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1308.2	0.0	1308.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	10315.3	0.0	10315.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	11623.5	0.0	11623.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.2
10°-20°	323.8	2.8
20°-30°	526.1	4.5
30°-40°	877.8	7.6
40°-50°	1660.7	14.3
50°-60°	2638.9	22.7
60°-70°	3264.5	28.1
70°-80°	2029.2	17.5
80°-90°	164.0	1.4
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°	11623.5	100.0
0°-180°	11623.5	100.0

Coefficient of Utilization



REPORT NUMBER: P962469

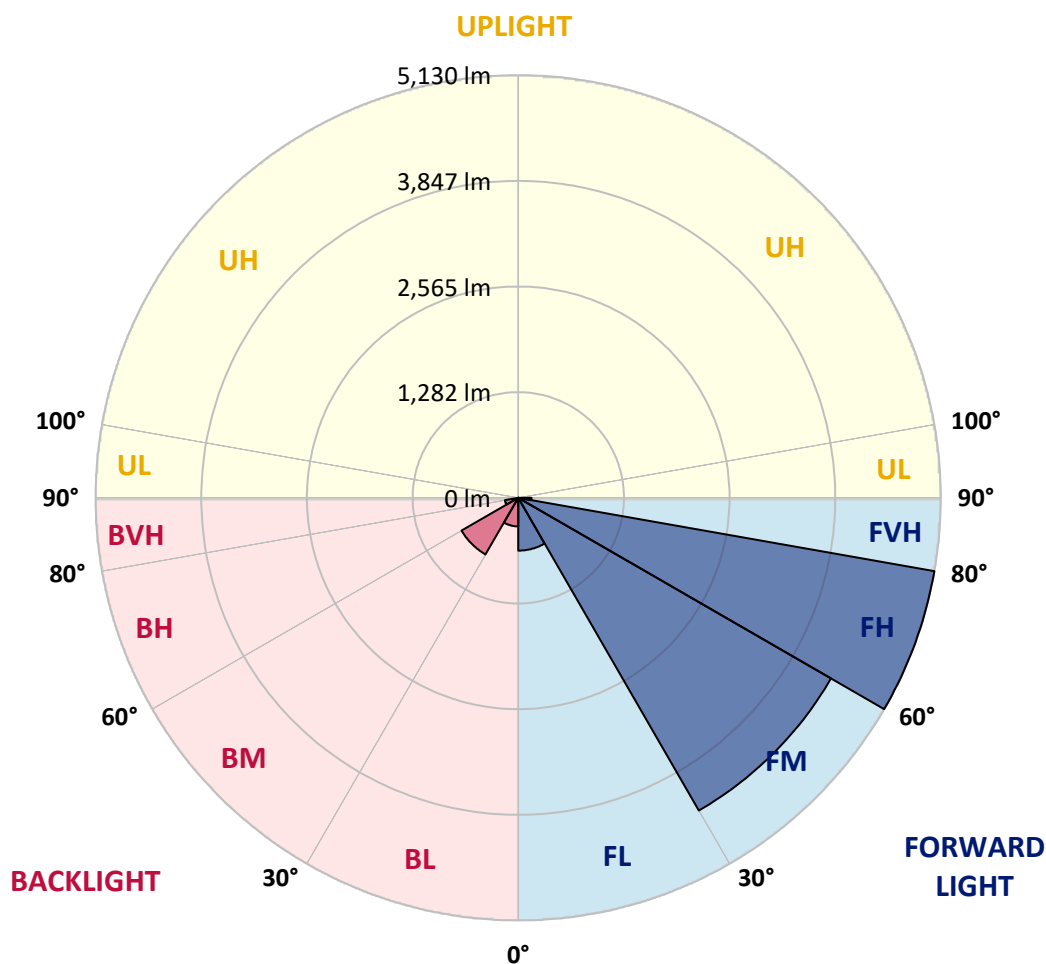
CATALOG NUMBER: NAV-SB2C-735-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	640.7	5.5			
FM	(30°-60°)	4383.2	37.7			
FH	(60°-80°)	5129.6	44.1			G3/7500
FVH	(80°-90°)	161.8	1.4			G2/225
BL	(0°-30°)	347.6	3.0	B1/500		
BM	(30°-60°)	794.2	6.8	B1/1000		
BH	(60°-80°)	164.1	1.4	B1/500		G1/500
BVH	(80°-90°)	2.2	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



REPORT NUMBER: P962469

CATALOG NUMBER: NAV-SB2C-735-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6
2.5°	1609.7	1623.3	1625.9	1630.2	1630.2	1635.3	1643.8	1655.7	1675.3	1685.5	1692.3
5°	1483.7	1493.8	1506.6	1516.9	1536.5	1539.0	1572.2	1604.5	1649.7	1683.8	1707.6
7.5°	1356.7	1368.7	1385.7	1410.4	1435.9	1443.6	1493.8	1548.4	1619.9	1683.8	1723.8
10°	1267.3	1268.1	1283.5	1308.2	1349.1	1358.4	1419.7	1497.2	1586.7	1673.5	1739.1
12.5°	1217.1	1223.0	1229.8	1248.6	1287.7	1293.8	1359.3	1450.4	1553.5	1667.6	1757.1
15°	1217.1	1221.3	1225.6	1234.9	1266.5	1271.6	1329.5	1420.6	1536.5	1670.1	1786.0
17.5°	1229.8	1236.7	1233.3	1244.4	1277.6	1280.9	1332.0	1412.1	1535.6	1686.3	1830.2
20°	1260.5	1265.6	1258.8	1265.6	1298.8	1305.6	1358.4	1428.2	1550.1	1714.4	1885.6
22.5°	1309.0	1311.6	1295.4	1300.5	1334.6	1343.2	1404.5	1474.3	1585.0	1759.6	1959.7
25°	1370.3	1375.4	1350.7	1356.7	1389.1	1399.3	1470.1	1543.2	1640.3	1821.7	2054.3
27.5°	1441.0	1443.6	1422.3	1421.5	1463.2	1477.6	1549.2	1628.4	1714.4	1900.1	2173.5
30°	1521.9	1529.6	1509.2	1505.8	1558.6	1570.5	1641.2	1733.2	1823.5	2017.6	2342.9
32.5°	1585.9	1591.8	1579.8	1588.4	1642.0	1651.4	1752.7	1881.4	1994.6	2184.6	2573.8
35°	1677.8	1681.2	1653.9	1669.3	1730.6	1754.5	1905.3	2089.2	2210.1	2394.1	2875.3
37.5°	2010.8	2010.8	1895.0	1819.2	1878.0	1899.2	2113.9	2350.6	2475.9	2675.1	3255.2
40°	2471.6	2463.9	2294.5	2139.5	2131.8	2173.5	2411.1	2680.3	2819.1	3012.4	3682.7
42.5°	2963.0	2951.1	2720.2	2567.0	2541.4	2555.9	2754.4	3086.5	3227.9	3423.8	4142.6
45°	3399.1	3395.7	3184.5	2978.3	2932.3	2978.3	3182.7	3561.8	3663.1	3869.2	4601.6
47.5°	3764.4	3764.4	3610.3	3475.8	3451.9	3479.2	3762.8	4088.9	4079.6	4343.6	5048.8
50°	4185.2	4181.8	4035.3	3977.4	4002.1	4040.4	4430.5	4644.3	4510.5	4809.5	5448.3
52.5°	4479.9	4500.3	4450.0	4440.7	4566.8	4633.2	5108.4	5187.6	4896.3	5251.5	5747.2
55°	4713.3	4737.0	4795.0	4860.5	5103.3	5190.2	5765.1	5702.9	5219.1	5634.7	5919.2
57.5°	5043.7	5009.6	5099.1	5228.5	5621.1	5725.9	6401.2	6189.2	5478.9	5945.6	5937.9
60°	5444.8	5449.9	5465.3	5628.8	6138.1	6272.7	7028.1	6649.1	5645.8	6136.4	5730.2
62.5°	5926.9	5934.5	5966.0	6217.3	6832.2	6959.1	7695.8	7025.6	5722.5	6082.8	5193.6
65°	5893.6	5926.0	6277.8	7137.2	7887.5	8012.6	8475.1	7289.6	5606.6	5592.2	4228.6
67.5°	5369.1	5421.8	6010.4	8235.8	9478.4	9618.1	9417.1	7341.6	5106.8	4348.7	2758.6
70°	4680.9	4699.6	5407.4	9223.8	11320.6	11462.0	10260.2	6770.0	3875.2	2425.6	1235.8
72.5°	3655.5	3659.7	4490.1	9452.9	12320.5	12328.2	9598.5	5025.8	2084.0	931.7	429.3
75°	2611.3	2585.8	3007.4	7666.0	10839.4	10926.3	7195.9	2357.5	796.3	440.3	213.8
77.5°	1400.1	1428.2	1701.7	4546.3	7488.0	7636.2	3926.3	679.7	405.4	299.8	141.3
80°	432.7	456.5	697.5	2081.6	4241.3	4330.8	1455.5	302.4	282.8	213.8	92.9
82.5°	136.2	141.3	325.3	874.6	1760.4	1801.3	421.6	171.2	193.3	141.3	54.5
85°	39.2	40.1	144.8	326.2	435.2	443.7	118.4	66.4	110.7	87.7	28.1
87.5°	4.3	13.6	54.5	54.5	38.3	37.5	12.8	14.5	31.5	11.1	5.1
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: P962469

CATALOG NUMBER: NAV-SB2C-735-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6	1684.6
2.5°	1688.1	1688.9	1677.8	1659.1	1638.7	1621.7	1600.3	1583.3	1571.3	1567.9	1573.9
5°	1700.0	1694.0	1662.4	1605.5	1537.3	1478.6	1413.0	1361.0	1327.0	1312.4	1317.5
7.5°	1717.9	1700.8	1631.8	1519.4	1389.1	1273.3	1155.7	1064.6	1006.7	977.7	982.0
10°	1733.2	1699.1	1580.8	1395.0	1195.8	1020.3	861.9	752.0	690.7	661.7	662.7
12.5°	1747.6	1698.2	1514.3	1247.7	977.7	763.1	615.8	561.3	544.3	538.2	536.6
15°	1774.9	1700.8	1430.8	1079.1	760.6	576.6	523.0	522.0	525.5	523.8	523.0
17.5°	1812.4	1703.3	1336.3	900.3	586.8	508.5	505.9	513.5	518.6	516.1	515.3
20°	1860.9	1713.6	1235.8	723.0	504.2	491.4	497.4	504.2	508.5	504.2	503.4
22.5°	1929.0	1731.4	1126.0	580.9	477.8	481.2	486.4	493.9	498.3	492.3	491.4
25°	2012.5	1759.6	1017.7	505.0	465.0	469.2	476.9	485.4	490.6	484.6	483.8
27.5°	2120.7	1804.7	918.1	488.0	452.2	454.8	465.9	478.7	485.4	477.8	477.8
30°	2277.4	1878.8	832.1	495.7	444.5	438.6	454.0	471.8	479.5	472.7	471.8
32.5°	2485.2	1983.6	779.3	507.6	441.2	419.8	434.4	457.4	470.2	465.9	465.9
35°	2757.8	2142.9	758.8	521.2	438.6	400.3	410.5	435.2	457.4	461.7	461.7
37.5°	3088.2	2364.3	764.9	527.2	430.9	384.1	389.2	410.5	439.5	453.0	456.5
40°	3463.8	2622.4	798.9	521.2	422.4	370.4	371.4	387.6	413.1	433.5	440.3
42.5°	3851.3	2923.8	861.9	499.1	414.8	358.5	356.0	367.1	384.1	398.6	404.6
45°	4220.1	3233.9	924.0	468.4	405.4	346.7	340.7	344.9	348.3	354.3	357.7
47.5°	4542.1	3451.9	906.2	440.3	392.7	333.0	322.8	321.1	310.9	310.1	309.1
50°	4764.3	3499.6	804.8	412.3	373.9	317.6	301.5	291.3	273.4	264.9	265.7
52.5°	4835.0	3311.4	657.5	384.1	343.3	297.2	274.3	258.1	236.0	228.3	227.4
55°	4741.3	2942.6	525.5	350.0	300.6	270.0	244.5	223.1	205.3	195.9	195.9
57.5°	4512.3	2473.3	415.6	310.1	255.5	239.3	213.8	192.5	177.1	167.8	166.0
60°	4132.4	1964.0	328.7	262.3	218.0	206.1	179.7	166.0	152.4	141.3	138.8
62.5°	3555.8	1401.9	258.1	207.8	182.2	168.6	153.3	143.1	126.9	111.5	109.1
65°	2774.8	857.6	199.3	152.4	146.5	139.7	130.3	121.0	101.4	86.0	83.4
67.5°	1750.2	406.2	142.3	115.0	115.8	112.4	108.1	100.4	86.0	72.4	70.7
70°	770.8	196.7	93.7	87.7	86.0	86.0	89.4	86.9	73.3	60.5	57.9
72.5°	262.3	105.6	69.8	66.4	62.2	61.3	74.9	72.4	58.7	46.8	44.3
75°	137.1	70.7	51.1	47.7	37.5	45.1	59.7	56.2	41.7	30.6	28.1
77.5°	89.4	50.2	35.0	30.6	21.3	29.8	44.3	39.2	24.7	15.4	13.6
80°	56.2	33.2	20.4	14.5	10.2	16.2	23.9	17.0	9.3	3.4	2.6
82.5°	29.8	17.0	7.7	5.1	4.3	5.1	5.9	4.3	1.7	0.0	0.0
85°	11.9	5.9	2.6	1.7	0.8	0.0	1.7	0.8	0.0	0.0	0.0
87.5°	4.3	0.8	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)