

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: P962624

Luminaire Tested: **NAV-SB2C-830-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962624
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-830-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 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: 10443.7 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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



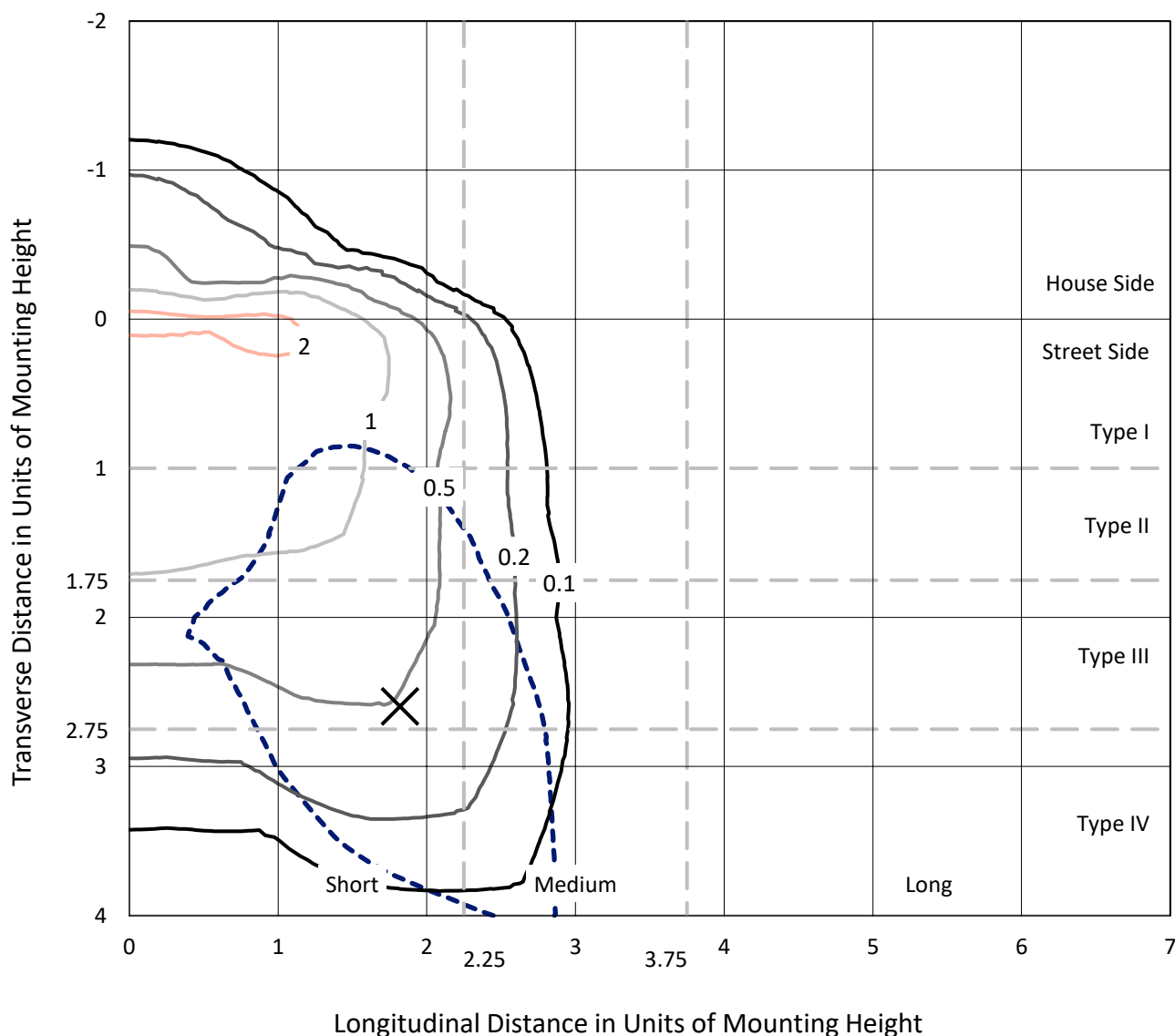
REPORT NUMBER: P962624

CATALOG NUMBER: NAV-SB2C-830-U-T4FT-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

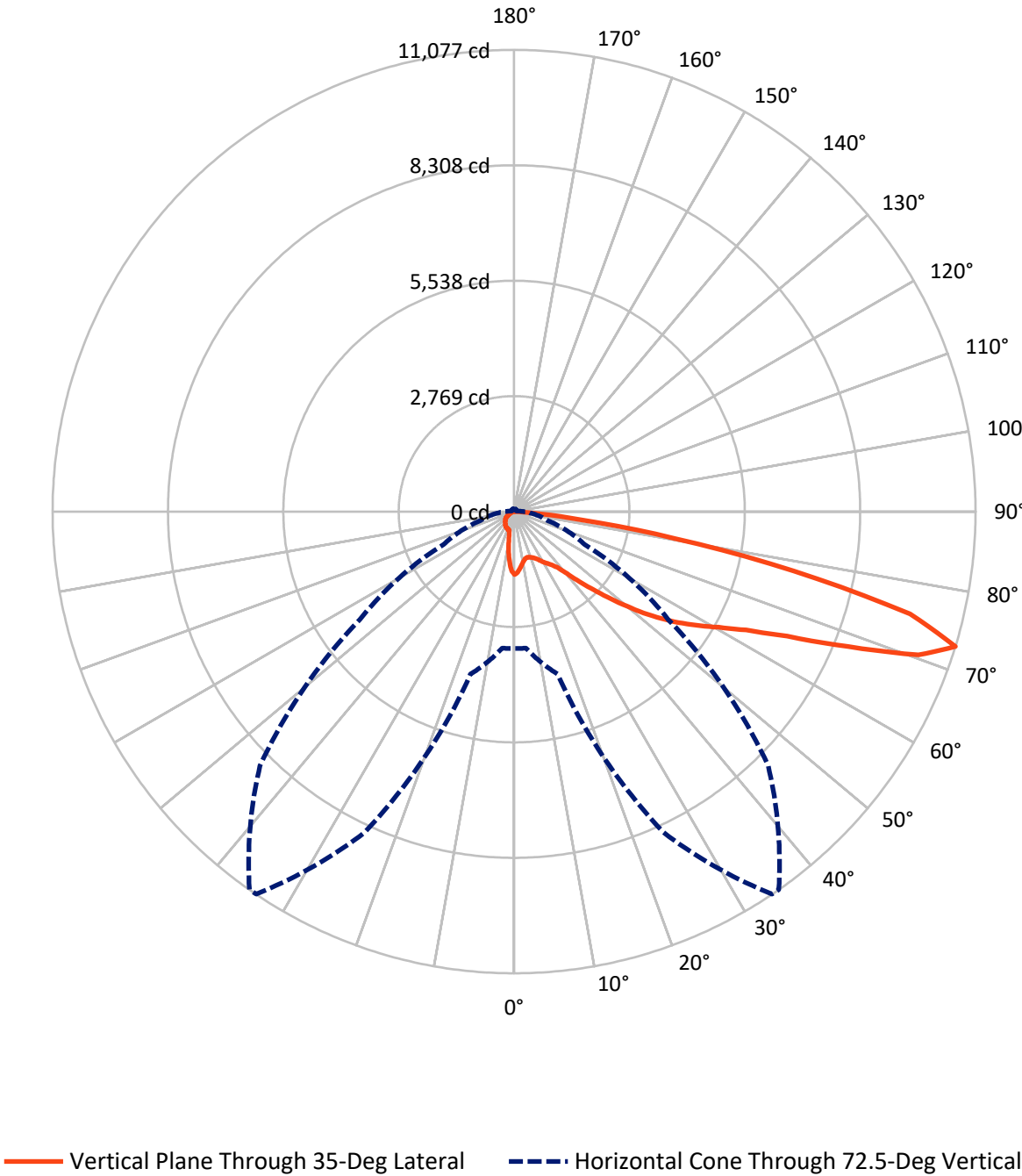


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc

Type IV - Short - N/A

REPORT NUMBER: P962624
CATALOG NUMBER: NAV-SB2C-830-U-T4FT-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P962624

CATALOG NUMBER: NAV-SB2C-830-U-T4FT-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1175.4	0.0	1175.4
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	9268.3	0.0	9268.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	10443.7	0.0	10443.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	1.2
10°-20°	291.0	2.8
20°-30°	472.7	4.5
30°-40°	788.7	7.6
40°-50°	1492.2	14.3
50°-60°	2371.1	22.7
60°-70°	2933.2	28.1
70°-80°	1823.3	17.5
80°-90°	147.3	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°	10443.7	100.0
0°-180°	10443.7	100.0

Coefficient of Utilization



REPORT NUMBER: P962624

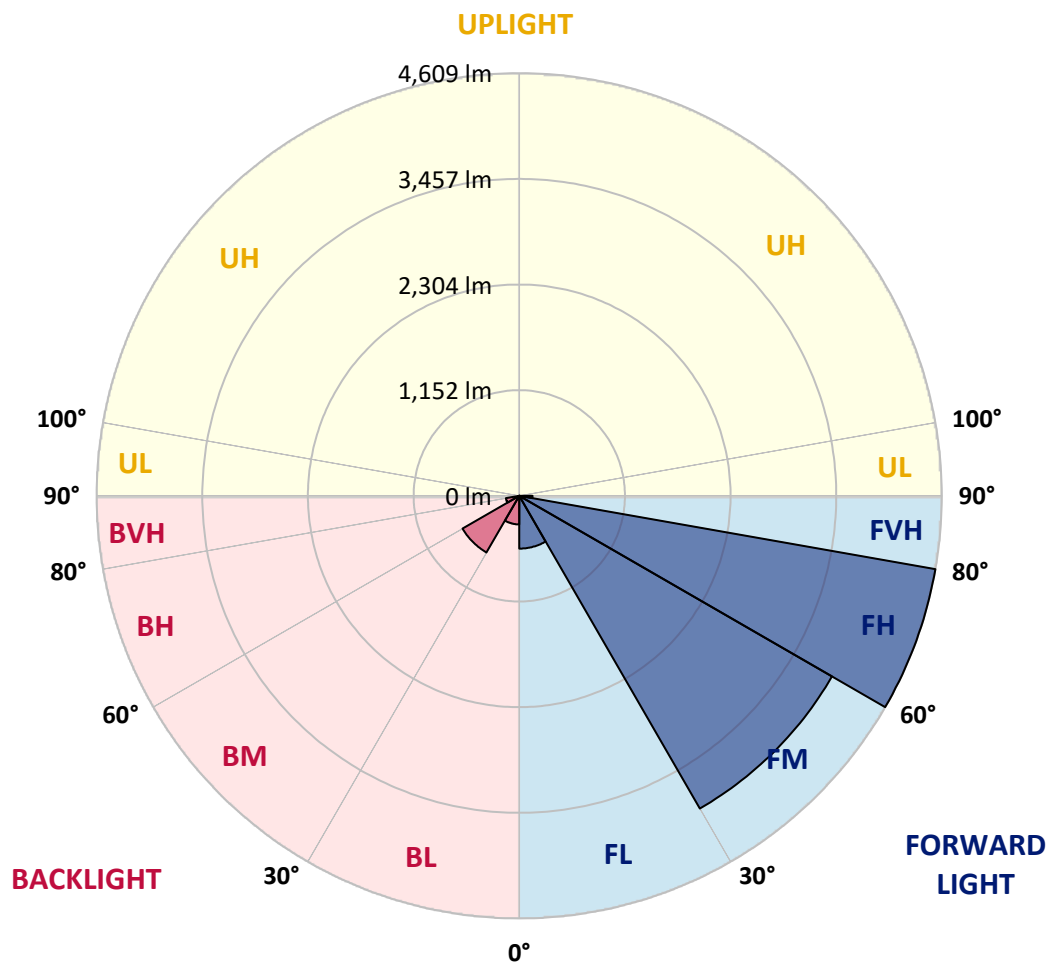
CATALOG NUMBER: NAV-SB2C-830-U-T4FT-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	575.7	5.5			
FM	(30°-60°)	3938.3	37.7			
FH	(60°-80°)	4608.9	44.1			G2/5000
FVH	(80°-90°)	145.3	1.4			G2/225
BL	(0°-30°)	312.3	3.0	B1/500		
BM	(30°-60°)	713.6	6.8	B1/1000		
BH	(60°-80°)	147.5	1.4	B1/500		G1/500
BVH	(80°-90°)	2.0	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-G2

Type IV Short



REPORT NUMBER: P962624

CATALOG NUMBER: NAV-SB2C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6
2.5°	1446.3	1458.6	1460.8	1464.6	1464.6	1469.2	1476.9	1487.6	1505.2	1514.4	1520.5
5°	1333.0	1342.2	1353.7	1362.9	1380.5	1382.8	1412.7	1441.7	1482.3	1512.9	1534.3
7.5°	1219.0	1229.7	1245.1	1267.2	1290.2	1297.0	1342.2	1391.2	1455.5	1512.9	1548.9
10°	1138.7	1139.5	1153.2	1175.4	1212.2	1220.6	1275.6	1345.3	1425.7	1503.7	1562.6
12.5°	1093.6	1098.9	1105.1	1121.9	1157.0	1162.4	1221.3	1303.2	1395.8	1498.3	1578.7
15°	1093.6	1097.4	1101.2	1109.6	1138.0	1142.5	1194.5	1276.4	1380.5	1500.6	1604.7
17.5°	1105.1	1111.1	1108.0	1118.0	1147.9	1151.0	1196.8	1268.7	1379.8	1515.2	1644.5
20°	1132.5	1137.1	1131.0	1137.1	1167.0	1173.1	1220.6	1283.3	1392.8	1540.5	1694.2
22.5°	1176.2	1178.4	1163.9	1168.5	1199.1	1206.8	1261.9	1324.6	1424.1	1581.0	1760.8
25°	1231.2	1235.8	1213.7	1219.0	1248.1	1257.3	1320.8	1386.6	1473.8	1636.8	1845.7
27.5°	1294.8	1297.0	1278.0	1277.1	1314.7	1327.7	1391.9	1463.2	1540.5	1707.2	1952.9
30°	1367.5	1374.4	1356.0	1352.9	1400.4	1411.1	1474.7	1557.3	1638.4	1812.8	2105.1
32.5°	1424.9	1430.3	1419.5	1427.2	1475.4	1483.8	1574.9	1690.4	1792.2	1962.9	2312.6
35°	1507.6	1510.5	1486.1	1499.9	1554.9	1576.3	1711.9	1877.2	1985.8	2151.1	2583.4
37.5°	1806.8	1806.8	1702.6	1634.6	1687.4	1706.5	1899.3	2112.1	2224.6	2403.6	2924.7
40°	2220.8	2213.8	2061.6	1922.3	1915.4	1952.9	2166.4	2408.2	2533.0	2706.6	3308.9
42.5°	2662.2	2651.6	2444.2	2306.5	2283.5	2296.5	2474.8	2773.2	2900.2	3076.2	3722.1
45°	3054.1	3051.0	2861.2	2676.1	2634.8	2676.1	2859.7	3200.3	3291.3	3476.5	4134.6
47.5°	3382.4	3382.4	3243.8	3123.0	3101.5	3126.0	3380.9	3673.9	3665.5	3902.7	4536.3
50°	3760.4	3757.3	3625.7	3573.7	3595.9	3630.3	3980.8	4172.9	4052.7	4321.3	4895.2
52.5°	4025.2	4043.5	3998.4	3989.9	4103.2	4162.9	4590.0	4661.1	4399.4	4718.5	5163.8
55°	4234.9	4256.3	4308.3	4367.2	4585.3	4663.3	5179.9	5124.1	4689.4	5062.8	5318.4
57.5°	4531.7	4501.2	4581.5	4697.8	5050.6	5144.7	5751.6	5561.0	4922.8	5342.1	5335.2
60°	4892.2	4896.7	4910.6	5057.5	5515.1	5636.0	6314.7	5974.2	5072.8	5513.6	5148.6
62.5°	5325.3	5332.2	5360.5	5586.2	6138.7	6252.8	6914.8	6312.5	5141.6	5465.3	4666.4
65°	5295.5	5324.6	5640.6	6412.7	7086.8	7199.4	7614.9	6549.6	5037.6	5024.5	3799.5
67.5°	4824.1	4871.5	5400.3	7399.9	8516.3	8641.9	8461.3	6596.4	4588.4	3907.3	2478.7
70°	4205.8	4222.6	4858.5	8287.5	10171.6	10298.6	9218.8	6082.9	3481.8	2179.4	1110.4
72.5°	3284.4	3288.2	4034.3	8493.4	11070.0	11076.9	8624.2	4515.6	1872.6	837.2	385.7
75°	2346.2	2323.3	2702.1	6887.9	9739.2	9817.2	6465.5	2118.2	715.4	395.6	192.1
77.5°	1258.1	1283.3	1529.0	4084.8	6728.0	6861.1	3527.7	610.7	364.3	269.4	127.0
80°	388.8	410.2	626.7	1870.2	3810.8	3891.2	1307.8	271.6	254.1	192.1	83.4
82.5°	122.5	127.0	292.3	785.9	1581.8	1618.5	378.8	153.9	173.7	127.0	49.0
85°	35.2	36.0	130.1	293.0	391.0	398.7	106.4	59.7	99.5	78.8	25.2
87.5°	3.8	12.2	49.0	49.0	34.4	33.6	11.5	13.0	28.3	9.9	4.6
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: P962624

CATALOG NUMBER: NAV-SB2C-830-U-T4FT-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6	1513.6
2.5°	1516.7	1517.5	1507.6	1490.7	1472.3	1457.0	1437.9	1422.6	1411.8	1408.8	1414.2
5°	1527.5	1522.0	1493.7	1442.5	1381.3	1328.5	1269.6	1222.8	1192.3	1179.3	1183.9
7.5°	1543.4	1528.2	1466.2	1365.2	1248.1	1144.0	1038.4	956.5	904.6	878.5	882.3
10°	1557.3	1526.6	1420.2	1253.5	1074.4	916.8	774.4	675.7	620.6	594.6	595.3
12.5°	1570.3	1525.9	1360.6	1121.0	878.5	685.6	553.3	504.3	489.0	483.6	482.1
15°	1594.8	1528.2	1285.6	969.5	683.4	518.0	469.9	469.1	472.1	470.6	469.9
17.5°	1628.4	1530.5	1200.7	808.8	527.3	456.8	454.6	461.5	466.1	463.7	463.0
20°	1672.1	1539.7	1110.4	649.6	453.0	441.6	446.9	453.0	456.8	453.0	452.2
22.5°	1733.3	1555.7	1011.7	521.9	429.3	432.3	437.0	443.8	447.6	442.3	441.6
25°	1808.3	1581.0	914.5	453.8	417.8	421.7	428.6	436.1	440.7	435.4	434.7
27.5°	1905.5	1621.6	824.9	438.5	406.3	408.7	418.6	430.1	436.1	429.3	429.3
30°	2046.2	1688.1	747.6	445.4	399.4	394.1	407.8	423.9	430.8	424.7	423.9
32.5°	2233.0	1782.3	700.2	456.1	396.4	377.3	390.3	410.9	422.4	418.6	418.6
35°	2477.8	1925.4	681.8	468.3	394.1	359.7	368.8	391.0	410.9	414.7	414.7
37.5°	2774.8	2124.3	687.2	473.7	387.2	345.1	349.7	368.8	394.8	407.1	410.2
40°	3112.2	2356.2	717.8	468.3	379.6	332.9	333.6	348.2	371.2	389.5	395.6
42.5°	3460.4	2627.1	774.4	448.4	372.7	322.2	319.9	329.8	345.1	358.1	363.5
45°	3791.8	2905.6	830.2	420.9	364.3	311.5	306.1	310.0	312.9	318.4	321.4
47.5°	4081.0	3101.5	814.3	395.6	352.8	299.2	290.1	288.5	279.3	278.6	277.8
50°	4280.7	3144.4	723.1	370.3	335.9	285.5	270.9	261.7	245.7	238.0	238.7
52.5°	4344.3	2975.3	590.8	345.1	308.4	267.1	246.4	231.9	212.0	205.1	204.3
55°	4260.1	2643.9	472.1	314.5	270.1	242.6	219.7	200.5	184.4	176.0	176.0
57.5°	4054.3	2222.3	373.4	278.6	229.6	215.0	192.1	172.9	159.2	150.8	149.2
60°	3713.0	1764.6	295.4	235.6	195.9	185.2	161.4	149.2	136.9	127.0	124.7
62.5°	3194.9	1259.6	231.9	186.8	163.8	151.5	137.8	128.5	114.0	100.2	98.0
65°	2493.1	770.6	179.1	136.9	131.6	125.5	117.1	108.6	91.0	77.3	75.0
67.5°	1572.6	365.0	127.8	103.3	104.0	101.0	97.2	90.3	77.3	65.1	63.6
70°	692.6	176.8	84.2	78.8	77.3	77.3	80.4	78.1	65.8	54.3	52.1
72.5°	235.6	94.9	62.7	59.7	55.9	55.1	67.3	65.1	52.8	42.1	39.8
75°	123.2	63.6	45.9	42.8	33.6	40.6	53.6	50.5	37.5	27.6	25.2
77.5°	80.4	45.1	31.4	27.6	19.2	26.8	39.8	35.2	22.2	13.7	12.2
80°	50.5	29.8	18.3	13.0	9.2	14.6	21.4	15.3	8.4	3.1	2.3
82.5°	26.8	15.3	6.9	4.6	3.8	4.6	5.3	3.8	1.5	0.0	0.0
85°	10.8	5.3	2.3	1.5	0.7	0.0	1.5	0.7	0.0	0.0	0.0
87.5°	3.8	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)