

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: P963674

Luminaire Tested: **NAV-SB3A-830-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-830-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9722.1 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 84.7
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



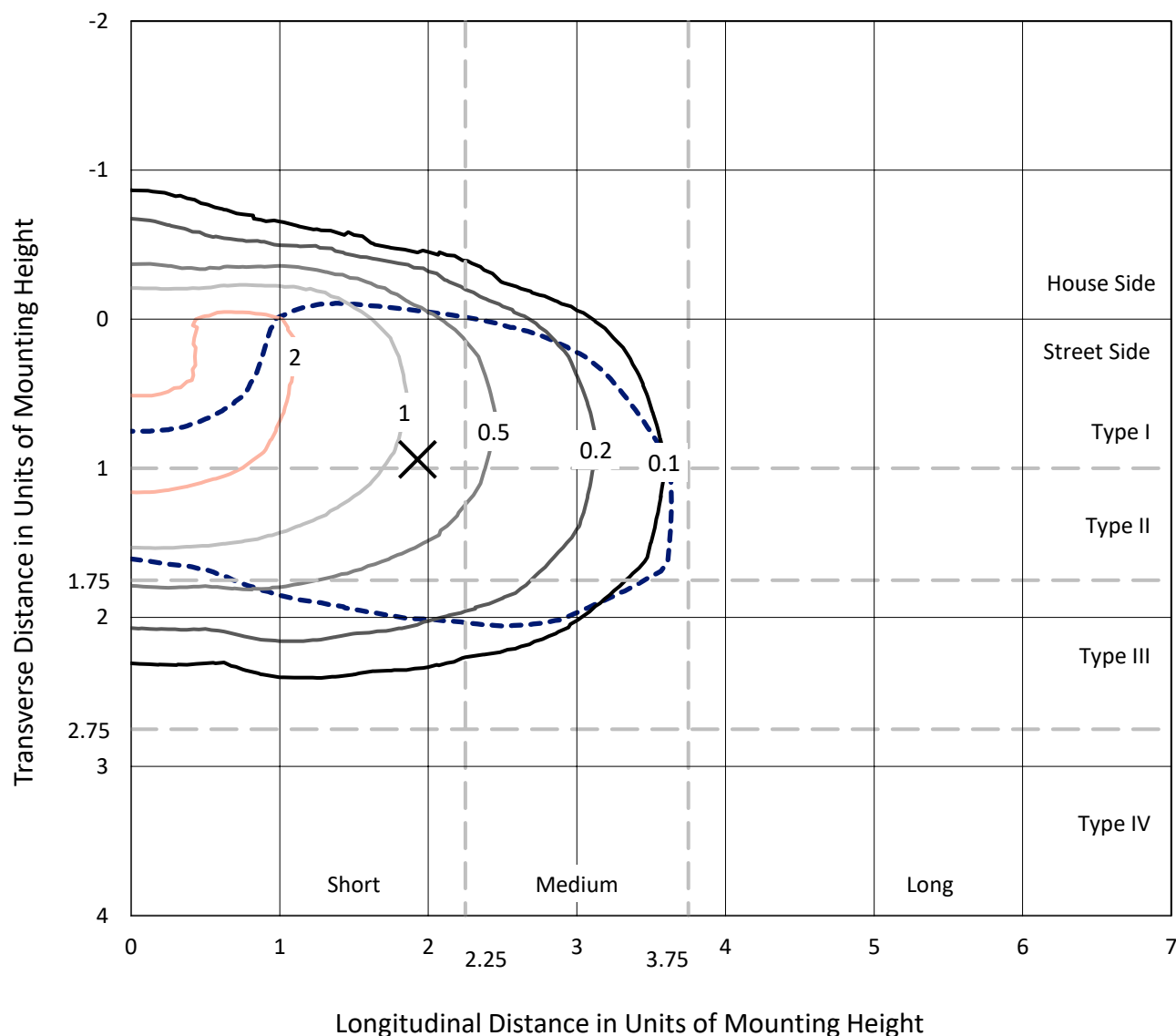
REPORT NUMBER: P963674

CATALOG NUMBER: NAV-SB3A-830-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

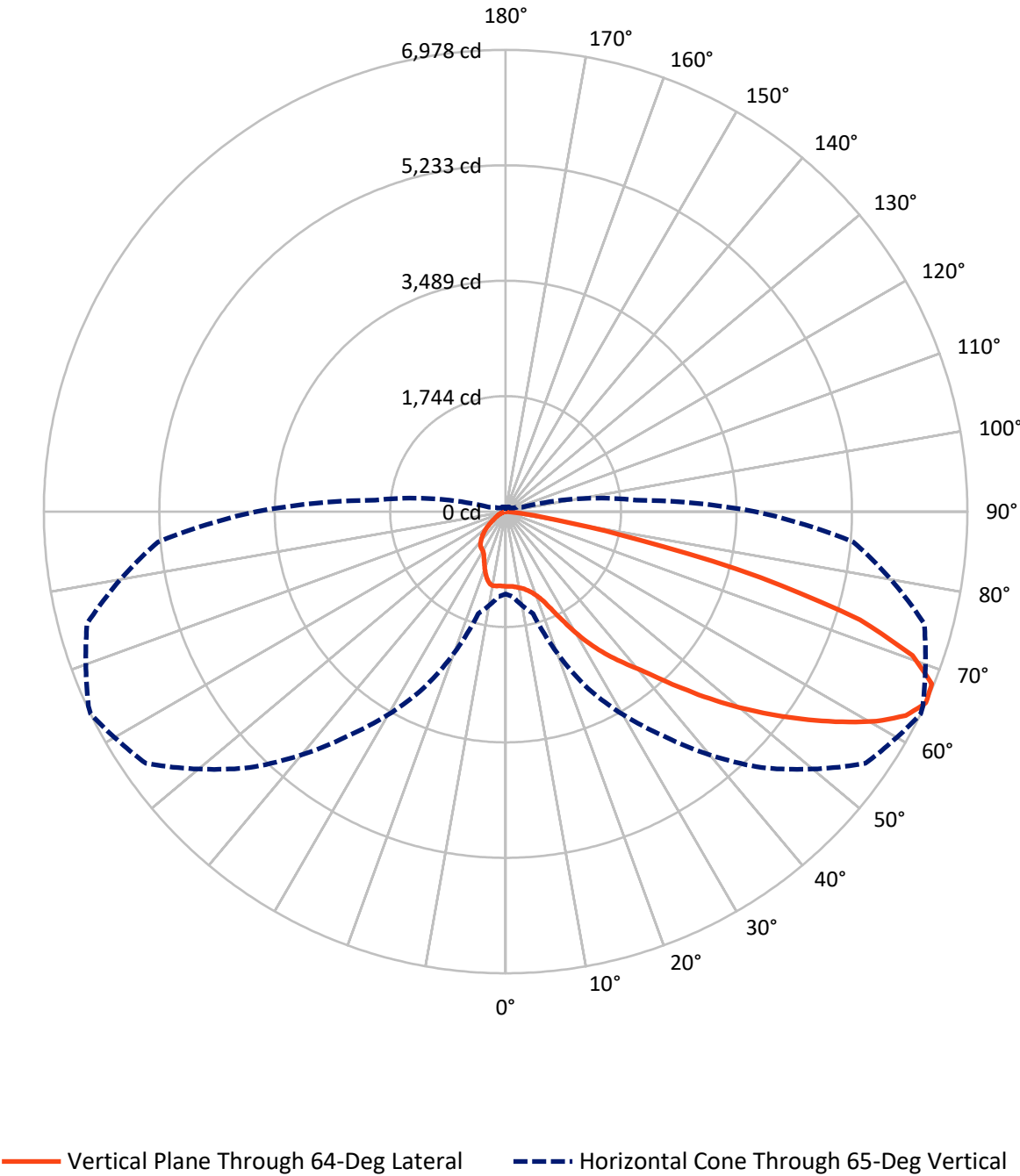


Based on 25 foot mounting height. Maximum calculated value = 2.8 fc

Type III - Short - N/A

REPORT NUMBER: P963674
CATALOG NUMBER: NAV-SB3A-830-U-T3-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P963674

CATALOG NUMBER: NAV-SB3A-830-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1300.1	0.0	1300.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8422.0	0.0	8422.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	9722.1	0.0	9722.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.3	1.1
10°-20°	283.0	2.9
20°-30°	536.2	5.5
30°-40°	1085.0	11.2
40°-50°	1848.3	19.0
50°-60°	2513.5	25.9
60°-70°	2360.3	24.3
70°-80°	945.7	9.7
80°-90°	45.8	0.5
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°	9722.1	100.0
0°-180°	9722.1	100.0

Coefficient of Utilization



REPORT NUMBER: P963674

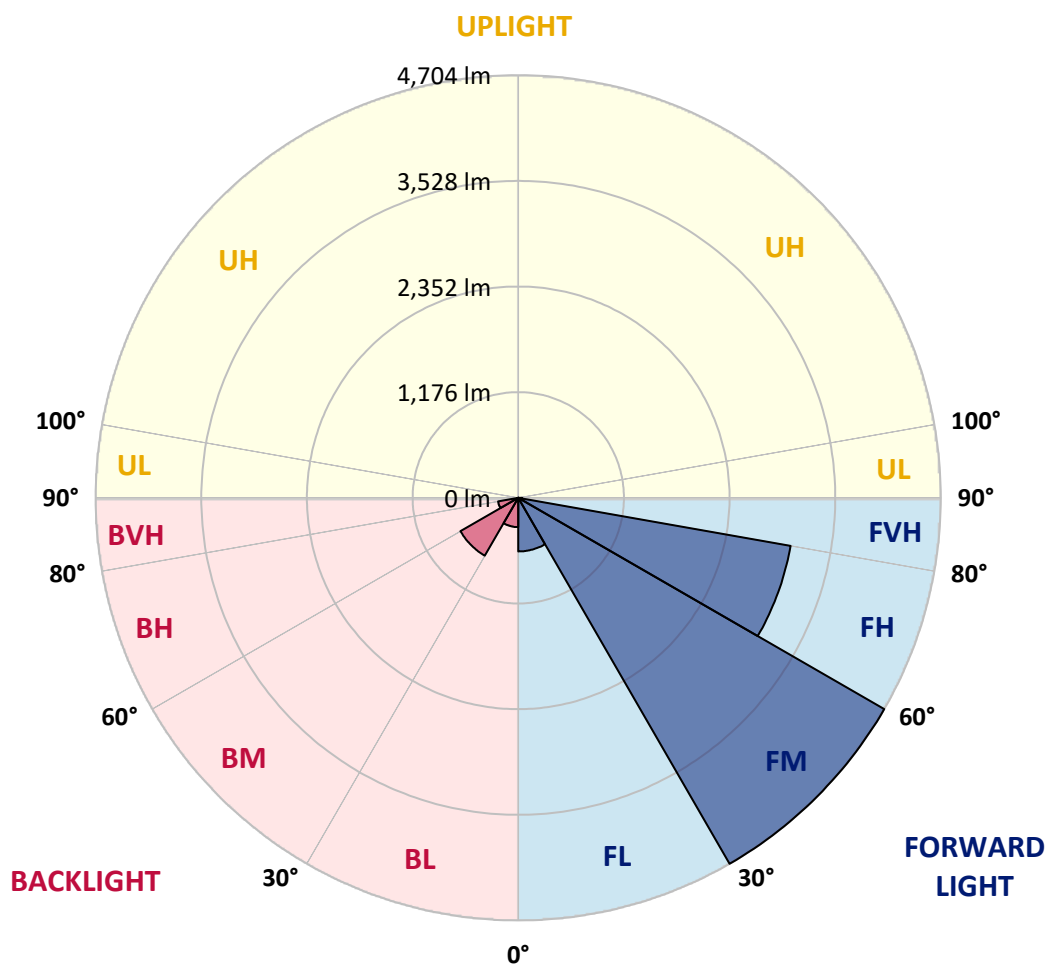
CATALOG NUMBER: NAV-SB3A-830-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	597.1	6.1			
FM	(30°-60°)	4703.5	48.4			
FH	(60°-80°)	3077.8	31.7			G2/5000
FVH	(80°-90°)	43.6	0.4			G1/100
BL	(0°-30°)	326.4	3.4	B1/500		
BM	(30°-60°)	743.3	7.6	B1/1000		
BH	(60°-80°)	228.2	2.3	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-G2

Type III Short



REPORT NUMBER: P963674

CATALOG NUMBER: NAV-SB3A-830-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8
2.5°	1126.9	1134.7	1132.7	1130.8	1130.2	1131.4	1132.1	1131.4	1131.4	1131.4	1132.1
5°	1105.4	1111.9	1111.9	1116.4	1123.0	1130.8	1136.6	1138.0	1139.3	1141.2	1140.5
7.5°	1064.3	1069.5	1073.4	1088.4	1104.7	1125.6	1143.2	1152.3	1153.6	1160.8	1163.4
10°	1036.3	1042.8	1049.3	1065.0	1088.4	1119.7	1149.6	1171.9	1175.1	1192.1	1199.9
12.5°	1034.9	1041.5	1050.0	1066.9	1094.3	1127.5	1164.0	1196.0	1201.8	1226.6	1242.9
15°	1048.7	1056.5	1064.3	1085.2	1114.5	1154.9	1194.0	1233.8	1239.6	1274.8	1292.4
17.5°	1076.7	1087.1	1093.0	1113.9	1145.1	1190.1	1241.6	1287.2	1292.4	1333.5	1355.7
20°	1132.1	1144.5	1146.5	1163.4	1194.0	1242.2	1303.5	1360.2	1366.7	1413.7	1438.4
22.5°	1246.8	1264.4	1248.8	1257.3	1284.6	1332.8	1399.3	1471.0	1480.1	1533.6	1555.7
25°	1448.8	1473.6	1433.2	1418.9	1430.6	1480.8	1564.1	1654.8	1665.2	1708.3	1719.3
27.5°	1845.7	1813.8	1752.5	1692.6	1657.4	1686.1	1779.9	1892.0	1905.1	1946.8	1933.8
30°	2281.8	2253.8	2171.0	2038.0	1954.6	1950.1	2036.7	2161.8	2176.8	2216.6	2176.8
32.5°	2718.4	2691.8	2601.8	2438.2	2293.5	2221.8	2281.8	2420.6	2428.4	2453.8	2395.2
35°	3148.0	3120.6	3030.6	2863.1	2685.2	2522.2	2510.5	2666.9	2669.6	2696.3	2608.9
37.5°	3580.0	3557.3	3461.4	3297.2	3121.8	2897.1	2788.2	2900.2	2903.5	2929.7	2839.0
40°	3888.3	3898.1	3832.3	3705.2	3554.6	3308.9	3099.7	3148.6	3129.0	3172.7	3118.7
42.5°	4153.0	4172.5	4115.2	4051.3	3964.0	3747.6	3485.5	3477.1	3445.8	3469.2	3413.2
45°	4381.7	4398.0	4346.5	4331.5	4329.6	4177.7	3907.2	3856.4	3812.7	3808.2	3741.0
47.5°	4465.8	4497.1	4519.2	4569.4	4667.1	4603.3	4343.2	4264.4	4215.5	4179.6	4073.5
50°	4497.7	4530.9	4606.6	4752.5	4984.0	5011.3	4777.3	4688.7	4628.7	4563.5	4407.1
52.5°	4454.8	4514.0	4615.7	4861.4	5197.1	5338.5	5193.8	5116.2	5047.8	4941.5	4709.6
55°	4201.2	4260.5	4468.4	4860.1	5303.2	5567.9	5587.5	5552.9	5476.0	5308.5	4953.9
57.5°	3666.7	3754.7	4083.9	4694.5	5301.3	5765.4	5973.3	5998.1	5912.0	5672.1	5146.2
60°	2926.4	3045.6	3447.1	4327.7	5137.7	5872.2	6311.5	6435.4	6344.1	6030.6	5302.0
62.5°	2041.9	2180.1	2560.0	3752.7	4763.6	5795.3	6558.6	6787.3	6718.3	6351.3	5362.0
65°	1245.5	1289.9	1596.1	2953.0	4127.6	5473.4	6634.8	6977.6	6954.8	6547.5	5273.3
67.5°	829.6	866.8	954.8	2025.0	3204.0	4830.1	6452.3	6944.4	6950.9	6515.5	4948.7
70°	499.9	531.9	589.2	1177.7	2076.4	3823.1	5887.3	6520.7	6558.6	6088.6	4333.5
72.5°	205.9	227.4	279.6	533.8	1075.4	2426.5	4688.0	5598.5	5686.5	5119.5	3325.9
75°	116.6	127.7	164.2	267.8	466.7	1130.8	2839.7	3974.3	4104.1	3528.6	2000.9
77.5°	77.6	82.8	106.2	173.3	262.6	385.8	1213.6	2070.6	2318.2	1927.2	866.1
80°	52.2	56.7	73.0	116.0	170.8	165.5	386.5	767.1	943.7	662.2	211.2
82.5°	35.2	35.9	52.2	76.3	108.2	80.2	114.1	238.5	299.8	191.6	80.2
85°	20.2	19.6	38.4	44.3	48.3	33.2	34.5	71.6	93.9	80.8	45.6
87.5°	2.6	3.9	15.0	11.7	6.6	7.2	7.2	12.4	18.2	19.6	9.7
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: P963674

CATALOG NUMBER: NAV-SB3A-830-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8
2.5°	1132.1	1131.4	1129.4	1127.5	1123.0	1120.3	1121.7	1120.3	1119.7	1120.3	1123.0
5°	1140.5	1138.6	1133.3	1126.9	1117.8	1106.7	1099.5	1089.1	1079.3	1073.4	1074.7
7.5°	1163.4	1161.4	1154.3	1136.0	1106.7	1060.4	1018.0	980.9	952.8	936.5	937.3
10°	1199.9	1196.6	1185.5	1145.1	1068.3	967.2	883.1	813.3	767.7	746.3	744.3
12.5°	1242.9	1239.0	1219.4	1136.6	995.2	837.5	721.5	643.9	601.6	582.7	580.7
15°	1293.8	1288.5	1250.1	1096.2	889.0	694.1	587.8	529.8	502.5	485.5	486.2
17.5°	1356.9	1347.8	1272.8	1035.7	773.7	584.7	505.7	462.1	438.0	421.7	420.4
20°	1439.1	1424.0	1291.1	963.3	667.4	515.6	450.4	413.9	395.6	381.3	378.6
22.5°	1553.8	1532.3	1313.2	885.1	592.4	467.9	409.3	382.5	367.6	351.3	348.7
25°	1695.9	1670.4	1340.6	812.7	541.0	426.9	379.4	357.1	339.6	320.6	318.7
27.5°	1894.6	1849.0	1373.2	753.4	496.6	391.7	352.0	327.2	307.0	291.3	288.0
30°	2116.2	2041.3	1401.9	717.6	456.2	359.2	316.1	291.3	272.4	261.4	259.4
32.5°	2326.1	2224.5	1420.9	701.9	419.7	322.0	277.0	250.3	236.0	232.7	234.6
35°	2524.3	2390.0	1418.9	687.0	387.1	284.8	238.5	211.2	200.1	202.0	202.0
37.5°	2752.3	2566.6	1405.2	663.5	360.4	250.9	205.3	181.2	171.4	172.1	174.7
40°	3017.6	2770.6	1396.7	619.2	331.1	219.7	177.9	158.4	151.2	148.6	147.9
42.5°	3300.5	2968.1	1398.0	569.0	294.6	191.6	159.0	142.8	136.2	134.3	133.6
45°	3584.6	3156.4	1399.9	516.8	256.1	170.1	145.3	131.6	127.7	125.2	125.2
47.5°	3851.8	3316.8	1363.5	460.7	218.3	153.9	134.3	125.2	121.9	118.6	118.6
50°	4100.8	3423.6	1275.5	395.6	188.4	140.7	125.8	119.3	116.0	112.7	112.7
52.5°	4294.3	3440.6	1130.2	328.5	167.5	131.0	120.5	114.7	110.8	107.5	106.9
55°	4380.4	3334.3	923.5	265.9	151.2	122.5	115.3	109.5	105.0	101.7	101.1
57.5°	4358.2	3110.8	720.2	213.8	135.6	114.1	108.9	105.0	99.7	94.5	93.9
60°	4249.4	2811.7	542.9	177.9	121.3	105.0	101.7	98.4	91.2	83.4	82.1
62.5°	4061.0	2435.6	387.1	147.3	105.6	94.5	93.2	90.6	80.2	65.8	64.5
65°	3772.9	1978.7	260.7	122.5	90.6	82.8	83.4	78.8	65.2	48.9	47.6
67.5°	3352.0	1446.9	166.9	100.3	75.6	69.1	69.7	67.1	55.4	41.7	39.8
70°	2815.6	958.1	108.9	76.3	60.6	53.4	57.4	58.0	46.9	33.9	32.6
72.5°	2064.0	565.7	76.3	56.7	44.3	37.1	46.9	48.3	37.8	25.4	24.1
75°	1176.4	268.5	57.4	41.1	27.4	26.0	36.5	36.5	26.0	16.9	15.7
77.5°	494.0	112.1	40.4	26.8	15.7	15.0	24.8	22.9	13.0	7.8	7.8
80°	142.8	50.2	21.5	13.0	6.6	5.8	9.7	7.2	3.3	1.3	1.3
82.5°	56.1	22.1	8.5	5.2	2.6	2.6	1.3	0.0	0.0	0.0	0.0
85°	33.2	9.1	3.9	1.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.5	1.9	1.3	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)