

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: P971032

Luminaire Tested: **NAV-SB6C-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971032
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6C-830-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35662.8 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 300.9
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



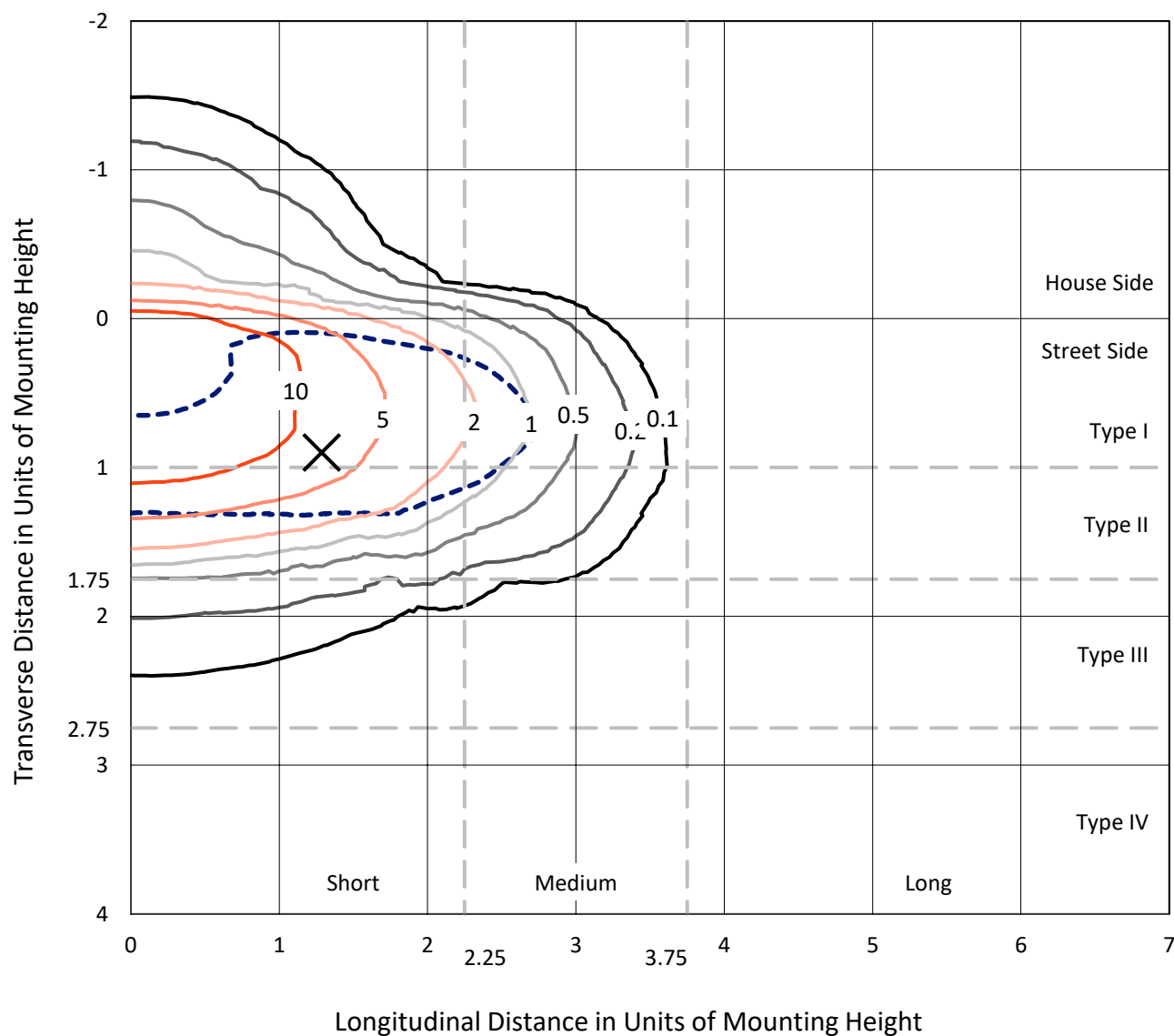
REPORT NUMBER: P971032

CATALOG NUMBER: NAV-SB6C-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

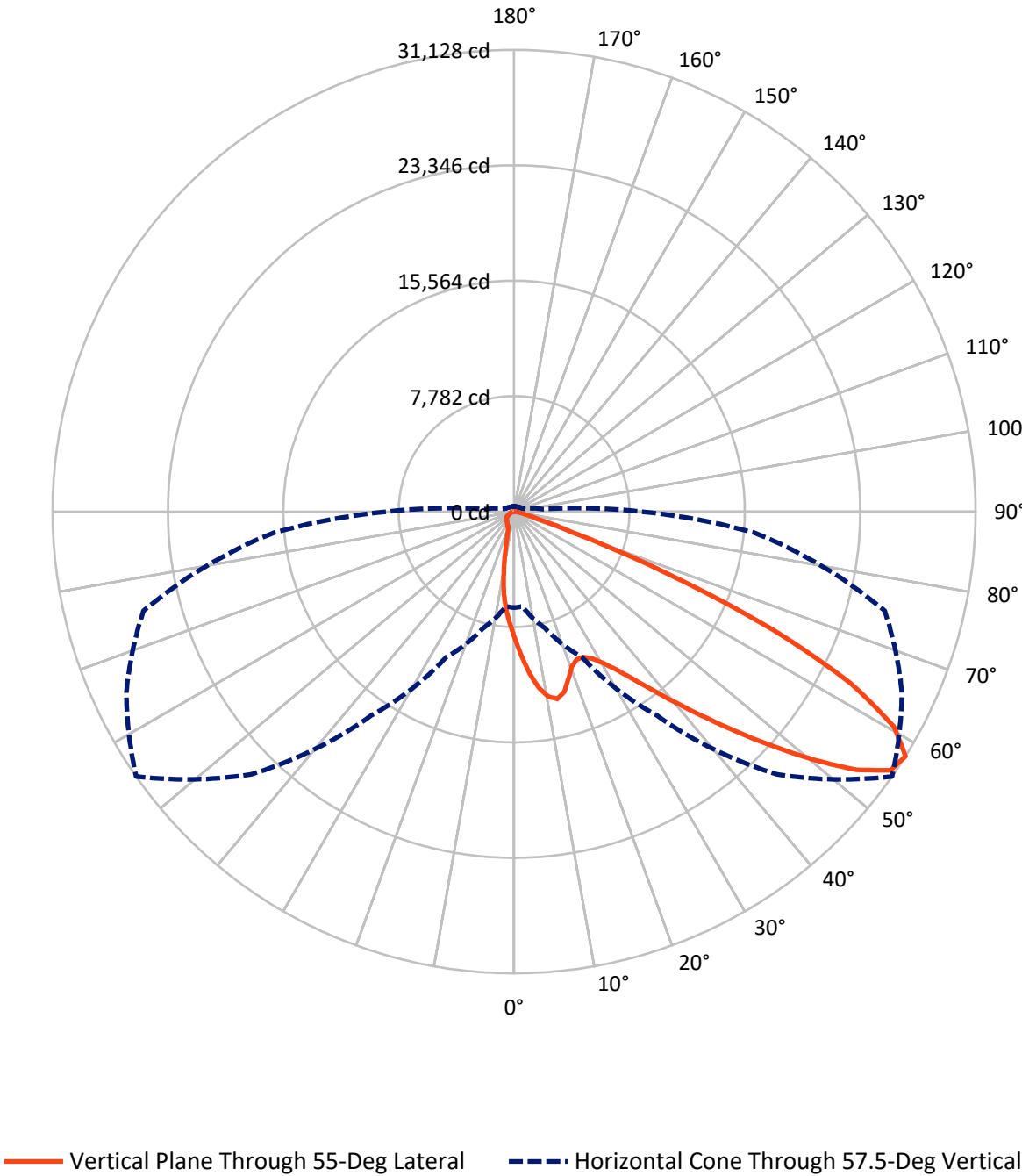


Based on 25 foot mounting height. Maximum calculated value = 19.7 fc

Type II - Short - N/A

REPORT NUMBER: P971032
CATALOG NUMBER: NAV-SB6C-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P971032

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2785.1	0.0	2785.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	32877.7	0.0	32877.7
	% Fixture	92.2	0.0	92.2
Total	Lumens	35662.8	0.0	35662.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	799.6	2.2
10°-20°	1931.5	5.4
20°-30°	3090.3	8.7
30°-40°	5230.5	14.7
40°-50°	8587.5	24.1
50°-60°	9438.2	26.5
60°-70°	5413.8	15.2
70°-80°	1106.2	3.1
80°-90°	65.3	0.2
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°	35662.8	100.0
0°-180°	35662.8	100.0

Coefficient of Utilization



REPORT NUMBER: P971032

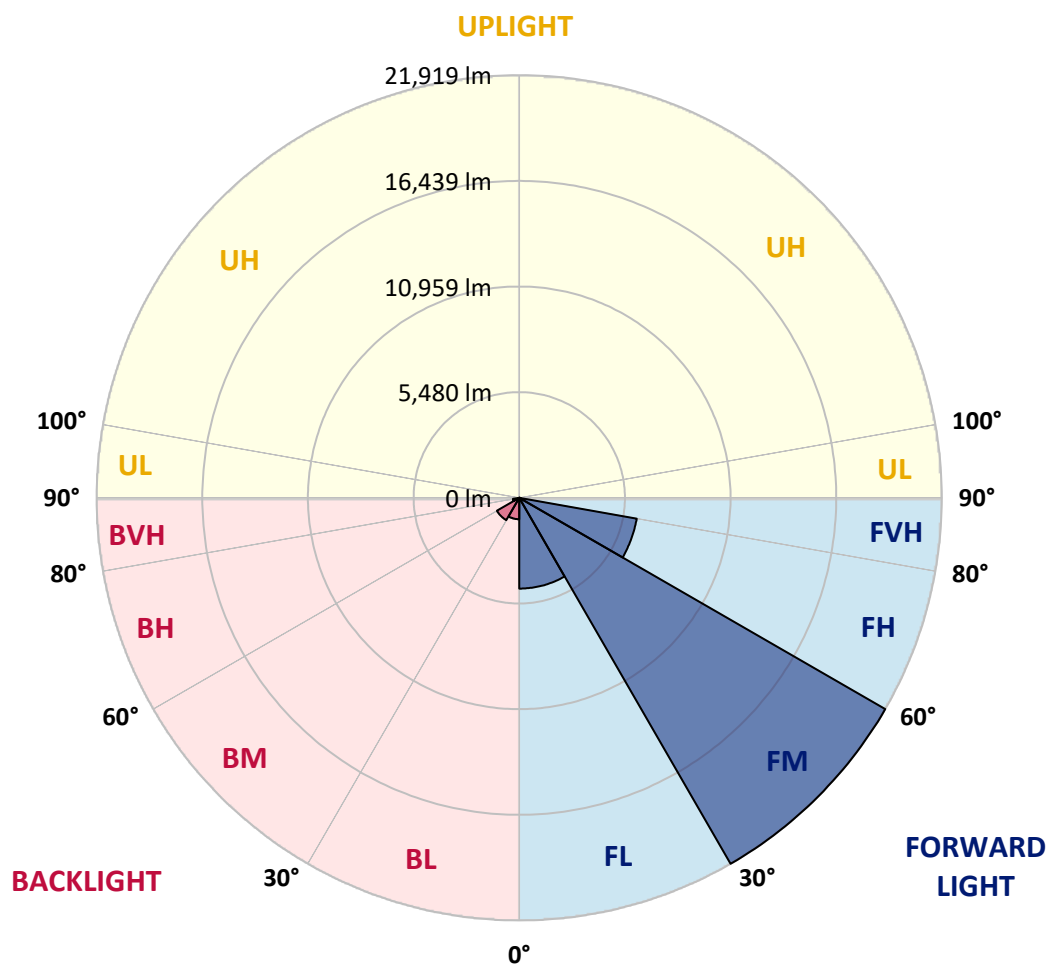
CATALOG NUMBER: NAV-SB6C-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4709.5	13.2			
FM	(30°-60°)	21918.6	61.5			
FH	(60°-80°)	6188.7	17.4			G3/7500
FVH	(80°-90°)	60.9	0.2			G1/100
BL	(0°-30°)	1111.9	3.1	B3/2500		
BM	(30°-60°)	1337.6	3.8	B2/2500		
BH	(60°-80°)	331.2	0.9	B1/500		G1/500
BVH	(80°-90°)	4.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P971032

CATALOG NUMBER: NAV-SB6C-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	10663.2	10529.0	10509.2	10482.9	10227.8	10036.4	9759.3	9455.9	9115.0	8767.5	8613.7
5°	12319.1	12213.5	12193.7	12070.5	11780.3	11454.8	10962.3	10339.9	9704.4	8956.7	8635.6
7.5°	12640.1	12620.3	12710.5	12706.1	12666.5	12409.2	11993.6	11252.6	10298.1	9189.8	8692.8
10°	11208.5	11259.1	11527.4	11762.7	12398.2	12767.6	12677.5	12066.2	10909.5	9455.9	8756.6
12.5°	9904.5	9845.1	10036.4	10302.5	11041.4	12140.9	12961.1	12745.7	11608.7	9757.2	8851.2
15°	9086.4	9062.2	9170.1	9293.2	9856.1	10964.4	12631.3	13297.6	12281.7	10113.4	8994.1
17.5°	8824.7	8805.0	8838.0	8868.7	9233.8	10091.4	11846.2	13636.3	12926.0	10520.2	9152.4
20°	9038.0	9011.7	9007.3	8983.1	9134.8	9719.8	11135.9	13660.5	13504.4	10889.7	9288.8
22.5°	9660.4	9629.6	9521.8	9425.1	9438.3	9770.3	10819.3	13418.6	13939.7	11234.9	9374.5
25°	10788.5	10737.9	10513.6	10188.2	9981.4	10122.2	10867.7	13099.7	14355.3	11505.4	9332.7
27.5°	12200.3	12134.4	11846.2	11362.4	10889.7	10718.1	11217.3	12879.8	14700.7	11712.1	9242.6
30°	13583.5	13497.7	13214.1	12838.0	12147.5	11606.6	11848.5	12976.6	15111.8	11927.6	9123.8
32.5°	15076.6	14995.2	14619.3	14153.0	13581.2	12853.4	12712.7	13449.3	15615.4	12228.9	9040.3
35°	16965.6	16838.1	16303.8	15668.1	15061.2	14324.6	13882.6	14265.2	16286.1	12688.5	9086.4
37.5°	19116.2	18944.8	18368.6	17491.2	16699.5	15874.9	15307.6	15386.7	17269.1	13304.2	9229.4
40°	21143.8	20987.7	20455.5	19628.6	18634.7	17634.1	17029.4	16853.5	18625.9	14054.1	9480.1
42.5°	22359.9	22219.1	21994.9	21645.2	20807.4	19787.0	19023.9	18643.5	20231.2	14951.3	9785.8
45°	22428.0	22304.9	22606.2	23013.0	22848.1	22168.6	21238.4	20541.3	21843.1	15793.5	10102.4
47.5°	21337.3	21253.8	22168.6	23589.1	24297.2	24583.1	23725.5	22280.7	23173.5	16398.3	10232.2
50°	18364.2	18333.5	20215.8	22823.9	24849.2	26698.6	26349.0	23899.2	24204.9	16710.6	10109.0
52.5°	15923.3	15811.1	16908.4	20374.1	24046.5	27811.3	28913.0	25486.9	24926.2	16769.9	9820.9
55°	12077.2	11978.2	13354.8	16275.2	21458.3	27415.5	30788.8	27125.2	25443.0	16618.2	9304.1
57.5°	6478.4	6416.8	8156.2	10832.5	16774.3	25040.5	31127.5	28858.1	25878.4	16215.7	8580.7
60°	2522.3	2511.4	3162.2	5255.7	10194.8	20372.0	29418.8	29898.2	26151.0	15720.9	7975.9
62.5°	1526.1	1559.1	1664.7	2359.5	4503.6	12655.5	25480.3	28715.1	26333.6	15268.0	7476.8
65°	1262.3	1264.4	1277.7	1620.7	2157.2	5295.3	19182.3	24822.8	25882.8	14460.9	6768.7
67.5°	1081.9	1101.7	1152.3	1286.5	1521.7	2322.2	11043.6	19228.4	23140.5	12582.9	5664.8
70°	853.2	879.7	943.4	1057.7	1174.2	1453.6	4081.4	12794.0	17678.1	9484.4	4283.8
72.5°	719.0	716.9	749.9	859.9	932.4	1022.5	1570.1	7168.8	10273.9	4527.8	2119.9
75°	556.4	578.3	620.1	719.0	763.1	741.1	851.1	2619.1	3681.2	1372.2	721.3
77.5°	435.4	453.0	490.4	587.1	631.1	525.6	490.4	936.7	1183.1	492.6	325.4
80°	195.7	211.2	334.3	433.2	514.6	362.8	266.1	479.4	525.6	224.3	164.9
82.5°	35.2	59.3	195.7	228.7	263.8	235.3	138.6	248.5	257.3	90.2	57.2
85°	2.2	4.4	68.2	83.5	105.6	77.0	41.8	98.9	85.8	30.7	22.0
87.5°	0.0	0.0	0.0	2.2	2.2	11.0	13.2	17.6	13.2	11.0	8.8
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: P971032

CATALOG NUMBER: NAV-SB6C-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9	8593.9
2.5°	8455.3	8143.0	7839.6	7591.0	7446.0	7199.7	7036.9	7010.6	6942.4	7001.8
5°	8292.6	7734.0	7168.8	6663.1	6247.5	5710.9	5310.7	5141.4	4994.0	5044.6
7.5°	8215.6	7333.8	6454.2	5589.9	4701.6	3844.0	3206.2	2940.1	2737.8	2766.4
10°	8112.3	6918.2	5539.4	4219.9	3030.3	2183.7	1743.8	1581.1	1491.0	1493.1
12.5°	8033.1	6421.2	4477.3	2861.0	1845.0	1394.2	1257.9	1218.3	1191.9	1194.1
15°	7993.6	5836.2	3428.3	1906.6	1319.4	1180.9	1147.9	1130.3	1112.7	1110.5
17.5°	7927.6	5185.4	2509.1	1391.9	1154.5	1106.1	1077.6	1057.7	1035.8	1031.4
20°	7828.6	4446.4	1834.0	1176.5	1081.9	1044.6	1005.0	978.6	952.2	947.8
22.5°	7646.1	3665.8	1409.6	1088.6	1029.2	987.4	939.0	908.3	881.8	877.4
25°	7307.4	2933.5	1187.5	1033.5	983.0	932.4	879.7	837.8	813.6	809.2
27.5°	6878.6	2304.6	1077.6	983.0	923.6	877.4	818.1	778.5	756.4	752.0
30°	6372.8	1774.6	1013.7	925.8	853.2	813.6	760.9	727.9	714.7	714.7
32.5°	5827.4	1418.4	987.4	868.6	791.6	747.6	705.9	692.7	688.3	686.1
35°	5315.1	1231.4	974.2	822.5	736.7	694.8	677.3	679.5	688.3	688.3
37.5°	4859.9	1172.1	967.6	789.5	688.3	650.9	661.9	681.7	672.9	672.9
40°	4448.7	1178.6	963.2	765.3	648.7	626.7	648.7	633.3	611.3	609.2
42.5°	4134.2	1233.7	954.4	745.5	624.5	609.2	600.3	576.2	574.0	578.3
45°	3905.5	1282.1	952.2	736.7	598.2	569.6	558.5	534.3	578.3	589.4
47.5°	3635.1	1282.1	952.2	705.9	554.1	543.1	525.6	499.2	543.1	554.1
50°	3285.3	1200.7	914.8	670.7	519.0	512.4	481.5	448.6	439.8	446.4
52.5°	2843.4	1053.4	820.2	622.4	483.8	470.6	433.2	409.0	402.4	402.4
55°	2339.8	881.8	692.7	552.0	446.4	422.2	395.9	384.8	378.2	373.8
57.5°	1902.2	723.4	556.4	490.4	411.2	380.5	371.7	358.4	347.5	340.8
60°	1561.3	569.6	459.6	435.4	376.1	347.5	345.2	327.7	299.1	294.7
62.5°	1205.1	417.8	387.0	378.2	340.8	316.6	312.2	277.1	233.1	224.3
65°	851.1	325.4	312.2	332.1	303.5	281.5	270.5	217.7	171.5	164.9
67.5°	598.2	272.6	246.3	290.3	263.8	235.3	228.7	184.7	143.0	138.6
70°	426.6	222.1	202.3	248.5	211.2	206.7	193.5	154.0	116.5	112.1
72.5°	301.2	169.3	156.1	215.6	145.1	178.1	158.4	118.8	87.9	83.5
75°	222.1	121.0	110.0	125.4	105.6	134.2	112.1	79.1	54.9	52.8
77.5°	162.8	77.0	66.0	61.6	61.6	83.5	61.6	33.0	24.2	22.0
80°	114.4	35.2	30.7	26.3	24.2	19.8	8.8	4.4	2.2	2.2
82.5°	68.2	15.4	15.4	11.0	6.6	0.0	0.0	0.0	0.0	0.0
85°	15.4	6.6	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	2.2	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

(END OF REPORT)