

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: P970505

Luminaire Tested: **NAV-SB6B-830-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970505
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-SB6B-830-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

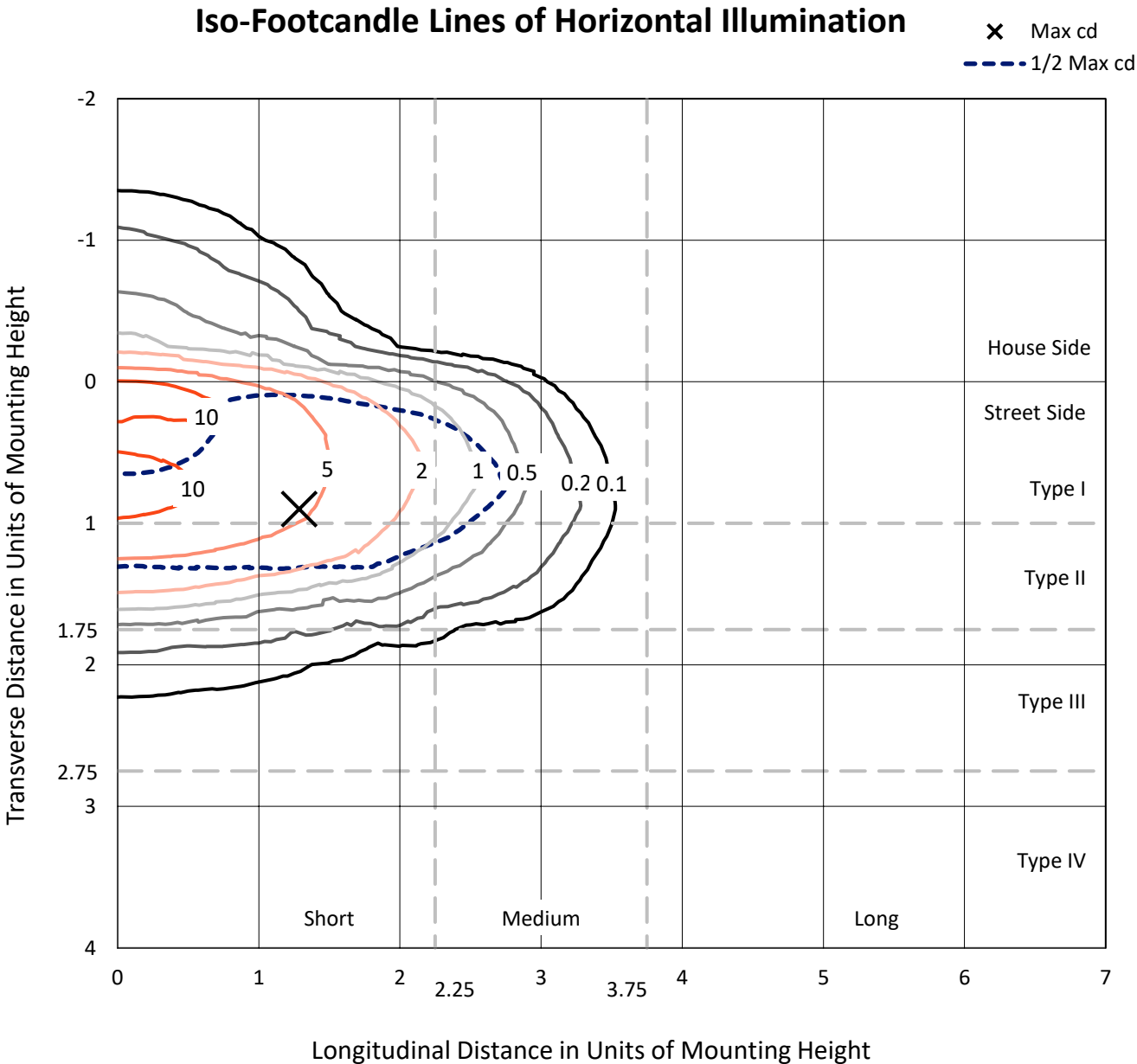
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26815 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 220.4
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



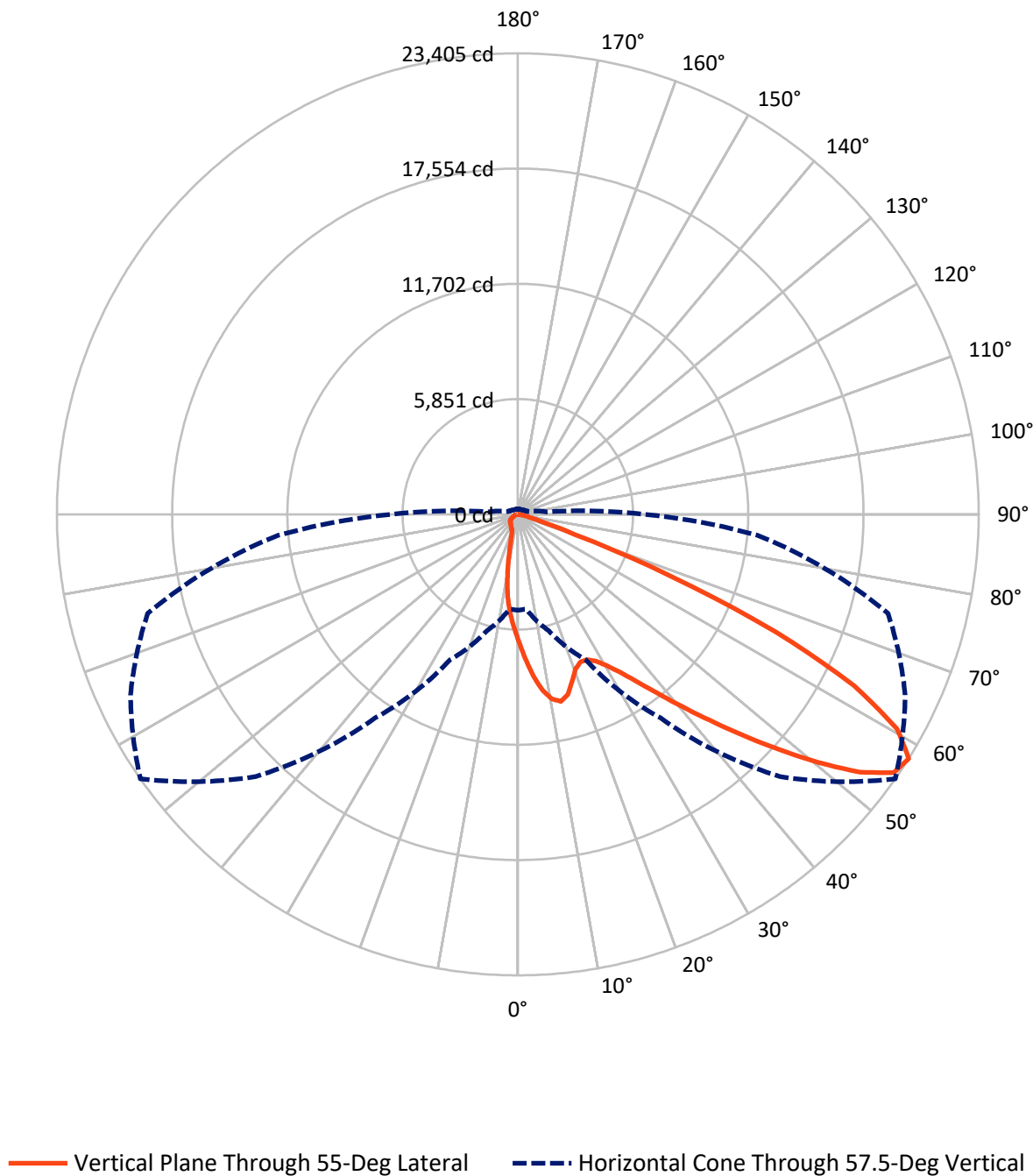
REPORT NUMBER: P970505
CATALOG NUMBER: NAV-SB6B-830-U-AFL-HSS



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
Type II - Short - N/A

REPORT NUMBER: P970505
CATALOG NUMBER: NAV-SB6B-830-U-AFL-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P970505

CATALOG NUMBER: NAV-SB6B-830-U-AFL-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2094.1	0.0	2094.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	24720.9	0.0	24720.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	26815.0	0.0	26815.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	601.2	2.2
10°-20°	1452.3	5.4
20°-30°	2323.6	8.7
30°-40°	3932.9	14.7
40°-50°	6456.9	24.1
50°-60°	7096.6	26.5
60°-70°	4070.6	15.2
70°-80°	831.8	3.1
80°-90°	49.1	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°	26815.0	100.0
0°-180°	26815.0	100.0

Coefficient of Utilization



REPORT NUMBER: P970505

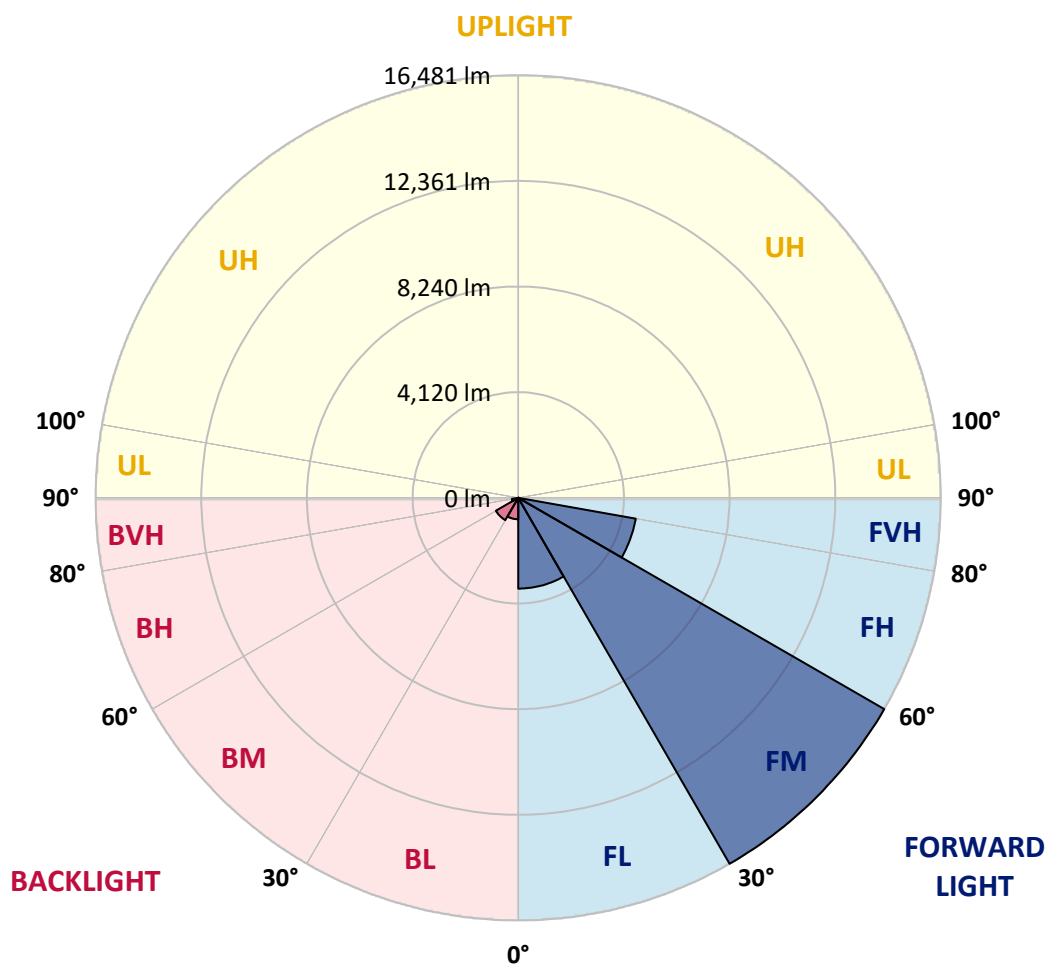
CATALOG NUMBER: NAV-SB6B-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3541.1	13.2			
FM	(30°-60°)	16480.7	61.5			
FH	(60°-80°)	4653.3	17.4			G2/5000
FVH	(80°-90°)	45.8	0.2			G1/100
BL	(0°-30°)	836.0	3.1	B2/1000		
BM	(30°-60°)	1005.7	3.8	B2/2500		
BH	(60°-80°)	249.1	0.9	B1/500		G1/500
BVH	(80°-90°)	3.3	0.0			G0/10
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 Short



REPORT NUMBER: P970505

CATALOG NUMBER: NAV-SB6B-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8
2.5°	8017.7	7916.8	7901.9	7882.0	7690.3	7546.5	7338.1	7109.9	6853.7	6592.4	6476.7
5°	9262.7	9183.4	9168.5	9075.9	8857.6	8613.0	8242.5	7774.6	7296.8	6734.6	6493.2
7.5°	9504.1	9489.2	9557.1	9553.7	9524.0	9330.6	9018.1	8460.8	7743.2	6909.8	6536.1
10°	8427.8	8465.8	8667.5	8844.4	9322.3	9600.0	9532.3	9072.6	8202.9	7109.9	6584.1
12.5°	7447.2	7402.6	7546.5	7746.5	8302.1	9128.9	9745.6	9583.5	8728.7	7336.4	6655.2
15°	6832.1	6814.0	6895.0	6987.5	7410.9	8244.2	9497.5	9998.6	9234.6	7604.3	6762.6
17.5°	6635.3	6620.5	6645.3	6668.4	6942.9	7587.8	8907.2	10253.2	9719.0	7910.2	6881.7
20°	6795.7	6776.0	6772.6	6754.4	6868.5	7308.4	8373.1	10271.3	10154.0	8188.0	6984.2
22.5°	7263.7	7240.5	7159.5	7086.7	7096.7	7346.4	8135.1	10089.5	10481.3	8447.5	7048.7
25°	8112.0	8073.9	7905.2	7660.5	7505.0	7610.9	8171.4	9849.7	10793.9	8651.0	7017.4
27.5°	9173.4	9123.8	8907.2	8543.5	8188.0	8059.1	8434.3	9684.4	11053.4	8806.4	6949.5
30°	10213.5	10149.0	9935.7	9652.9	9133.8	8727.1	8908.9	9757.1	11362.6	8968.4	6860.2
32.5°	11336.2	11275.0	10992.3	10641.8	10211.9	9664.5	9558.7	10112.6	11741.3	9195.0	6797.4
35°	12756.5	12660.6	12258.8	11780.9	11324.6	10770.7	10438.4	10726.0	12245.6	9540.5	6832.1
37.5°	14373.6	14244.6	13811.5	13151.7	12556.5	11936.4	11509.8	11569.3	12984.7	10003.5	6939.7
40°	15898.2	15780.7	15380.5	14758.9	14011.5	13259.2	12804.5	12672.2	14004.9	10567.3	7128.2
42.5°	16812.5	16706.7	16538.0	16275.1	15645.1	14877.9	14304.2	14018.1	15211.9	11241.9	7358.0
45°	16863.7	16771.2	16997.7	17303.5	17179.5	16668.7	15969.2	15445.1	16423.9	11875.2	7596.1
47.5°	16043.6	15980.8	16668.7	17736.8	18269.2	18484.1	17839.3	16752.9	17424.3	12329.9	7693.5
50°	13808.1	13785.0	15200.3	17161.4	18684.2	20074.7	19811.9	17969.9	18199.7	12564.8	7601.0
52.5°	11972.8	11888.5	12713.5	15319.4	18080.7	20911.4	21739.8	19163.7	18742.1	12609.3	7384.4
55°	9080.9	9006.5	10041.5	12237.4	16134.5	20613.8	23150.2	20395.6	19130.6	12495.3	6995.8
57.5°	4871.1	4824.8	6132.7	8145.0	12612.6	18828.0	23404.8	21698.5	19458.0	12192.7	6451.9
60°	1896.6	1888.3	2377.7	3951.8	7665.5	15317.7	22120.1	22480.6	19663.1	11820.6	5997.2
62.5°	1147.5	1172.3	1251.6	1774.2	3386.3	9515.7	19158.8	21591.0	19800.3	11480.0	5621.8
65°	949.0	950.8	960.6	1218.6	1622.1	3981.5	14423.2	18664.3	19461.4	10873.2	5089.3
67.5°	813.5	828.4	866.4	967.3	1144.2	1746.1	8303.7	14457.9	17399.5	9461.2	4259.4
70°	641.5	661.4	709.3	795.3	882.9	1093.0	3068.8	9619.9	13292.2	7131.4	3221.0
72.5°	540.7	539.0	563.9	646.5	701.1	768.9	1180.6	5390.3	7725.0	3404.5	1594.0
75°	418.3	434.9	466.3	540.7	573.8	557.2	639.9	1969.3	2767.9	1031.8	542.3
77.5°	327.4	340.6	368.7	441.5	474.6	395.1	368.7	704.4	889.6	370.3	244.7
80°	147.2	158.8	251.3	325.7	386.9	272.9	200.1	360.5	395.1	168.6	124.0
82.5°	26.4	44.7	147.2	172.0	198.4	176.9	104.1	186.9	193.4	67.8	42.9
85°	1.6	3.3	51.2	62.8	79.3	57.9	31.4	74.4	64.5	23.2	16.5
87.5°	0.0	0.0	0.0	1.6	1.6	8.3	9.9	13.2	9.9	8.3	6.7
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: P970505

CATALOG NUMBER: NAV-SB6B-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8	6461.8
2.5°	6357.6	6122.8	5894.6	5707.8	5598.7	5413.4	5291.2	5271.3	5220.0	5264.6
5°	6235.3	5815.2	5390.3	5010.0	4697.5	4294.0	3993.1	3865.8	3755.0	3793.0
7.5°	6177.4	5514.3	4853.0	4203.1	3535.1	2890.3	2410.8	2210.7	2058.6	2080.0
10°	6099.7	5201.8	4165.1	3173.0	2278.5	1641.8	1311.2	1188.8	1121.0	1122.7
12.5°	6040.1	4828.2	3366.5	2151.2	1387.2	1048.3	945.8	916.0	896.2	897.8
15°	6010.4	4388.3	2577.8	1433.6	992.1	888.0	863.2	849.9	836.6	835.0
17.5°	5960.8	3898.9	1886.6	1046.6	868.1	831.7	810.2	795.3	778.8	775.5
20°	5886.4	3343.3	1379.0	884.6	813.5	785.4	755.6	735.7	716.0	712.7
22.5°	5749.1	2756.3	1059.8	818.5	773.9	742.4	706.0	682.9	663.1	659.7
25°	5494.5	2205.7	892.9	777.2	739.1	701.1	661.4	630.0	611.8	608.4
27.5°	5172.0	1732.9	810.2	739.1	694.4	659.7	615.1	585.4	568.8	565.5
30°	4791.8	1334.3	762.3	696.1	641.5	611.8	572.1	547.2	537.4	537.4
32.5°	4381.7	1066.5	742.4	653.1	595.2	562.2	530.7	520.8	517.5	515.9
35°	3996.5	926.0	732.5	618.4	553.9	522.5	509.2	511.0	517.5	517.5
37.5°	3654.1	881.3	727.5	593.6	517.5	489.4	497.7	512.6	505.9	505.9
40°	3345.0	886.2	724.3	575.4	487.8	471.2	487.8	476.2	459.7	458.0
42.5°	3108.5	927.6	717.6	560.6	469.6	458.0	451.4	433.2	431.5	434.9
45°	2936.5	964.0	716.0	553.9	449.8	428.2	419.9	401.8	434.9	443.1
47.5°	2733.2	964.0	716.0	530.7	416.7	408.4	395.1	375.4	408.4	416.7
50°	2470.2	902.8	687.9	504.3	390.2	385.3	362.1	337.3	330.7	335.7
52.5°	2137.9	792.0	616.7	467.9	363.8	353.8	325.7	307.5	302.6	302.6
55°	1759.3	663.1	520.8	415.0	335.7	317.4	297.7	289.4	284.4	281.1
57.5°	1430.3	544.0	418.3	368.7	309.2	286.1	279.4	269.5	261.3	256.2
60°	1173.9	428.2	345.5	327.4	282.7	261.3	259.6	246.4	224.9	221.6
62.5°	906.1	314.2	291.0	284.4	256.2	238.1	234.8	208.4	175.3	168.6
65°	639.9	244.7	234.8	249.7	228.2	211.7	203.4	163.7	128.9	124.0
67.5°	449.8	205.0	185.2	218.2	198.4	176.9	172.0	138.9	107.5	104.1
70°	320.7	167.0	152.1	186.9	158.8	155.4	145.5	115.7	87.6	84.4
72.5°	226.5	127.3	117.4	162.1	109.2	134.0	119.0	89.3	66.1	62.8
75°	167.0	90.9	82.7	94.2	79.3	100.9	84.4	59.6	41.3	39.7
77.5°	122.4	57.9	49.6	46.3	46.3	62.8	46.3	24.8	18.1	16.5
80°	86.0	26.4	23.2	19.9	18.1	14.9	6.7	3.3	1.6	1.6
82.5°	51.2	11.6	11.6	8.3	4.9	0.0	0.0	0.0	0.0	0.0
85°	11.6	4.9	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	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)