

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: P970288

Luminaire Tested: **NAV-SB6B-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970288
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-727-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 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: 27680.1 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

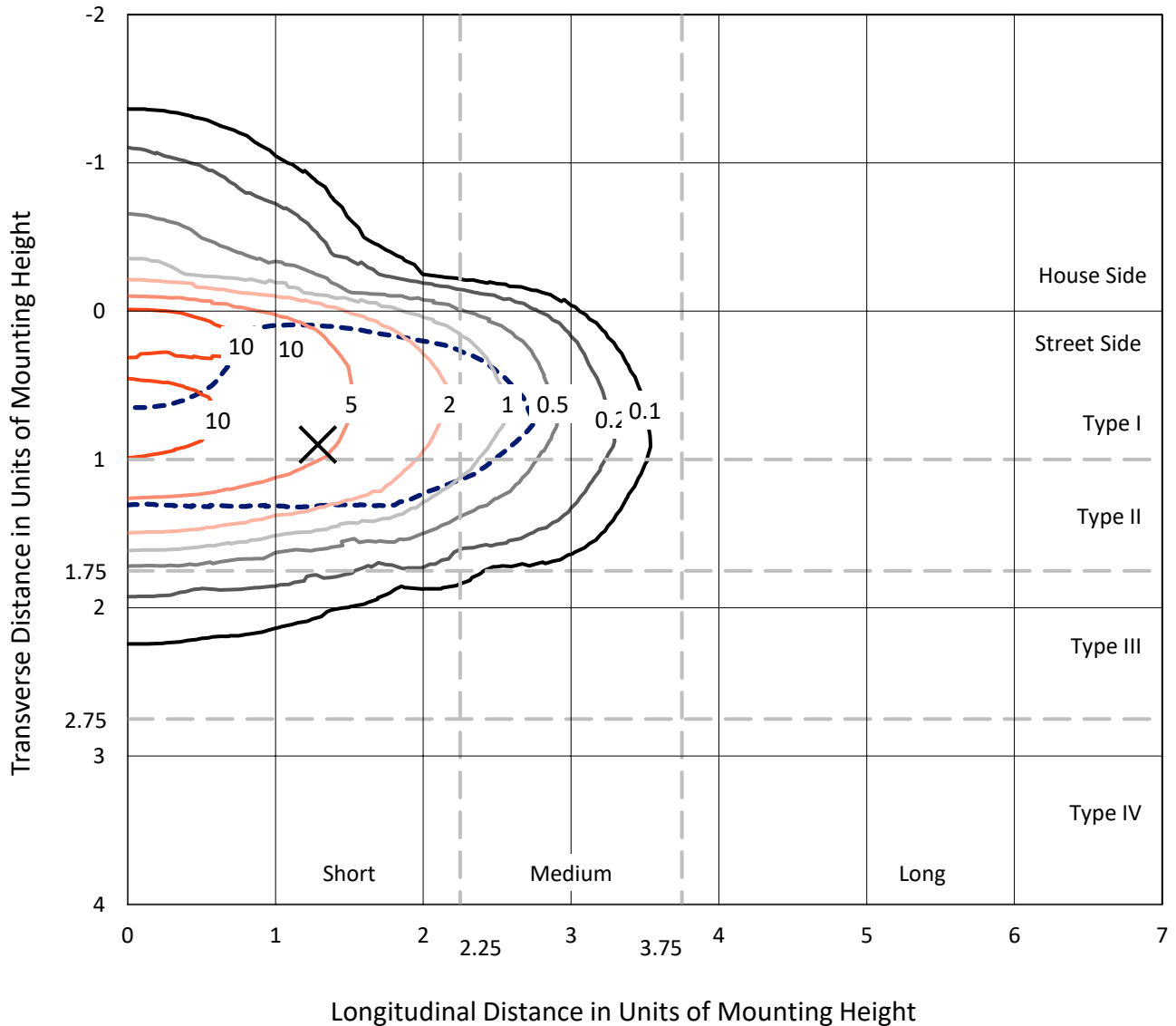
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

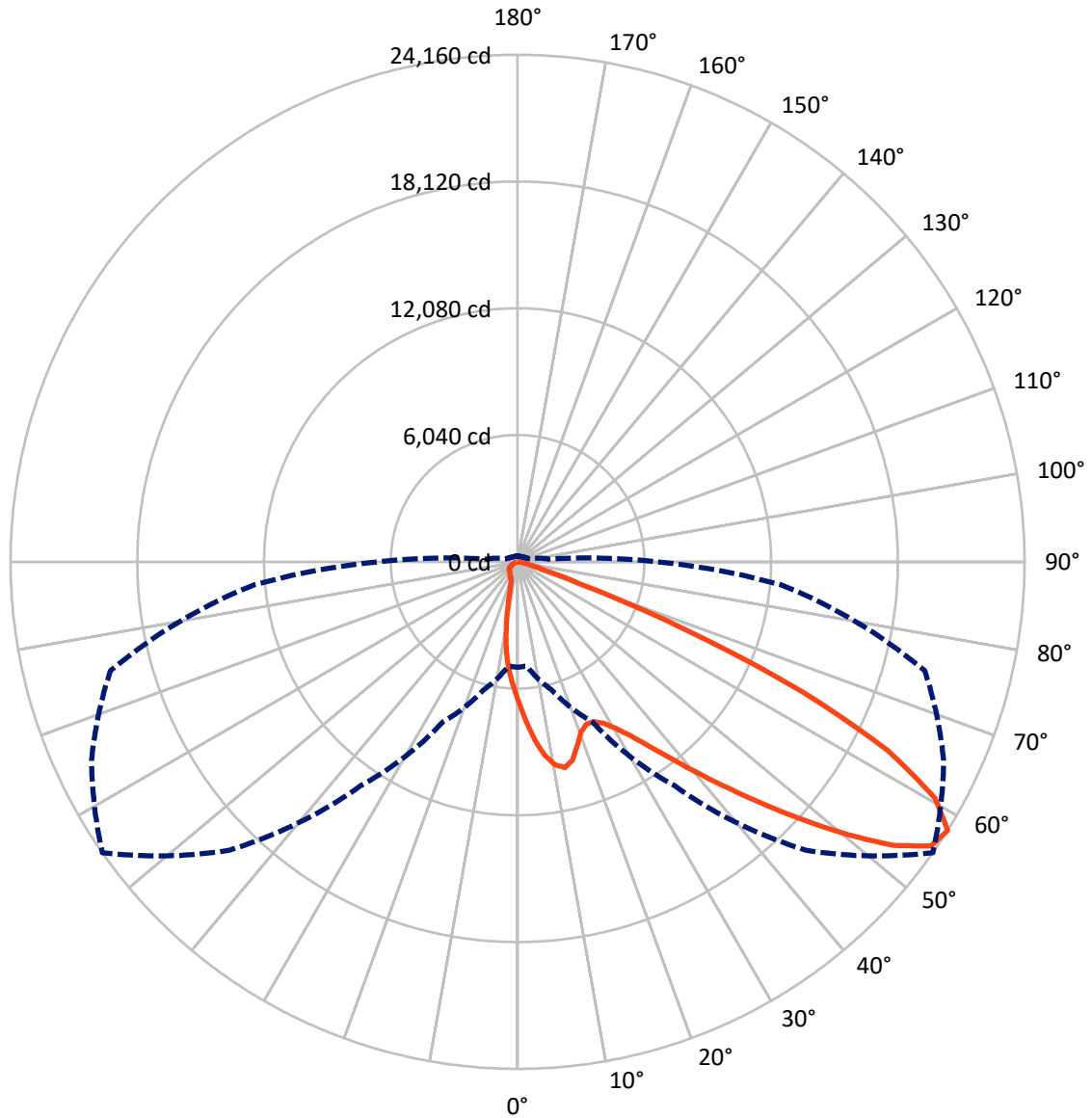
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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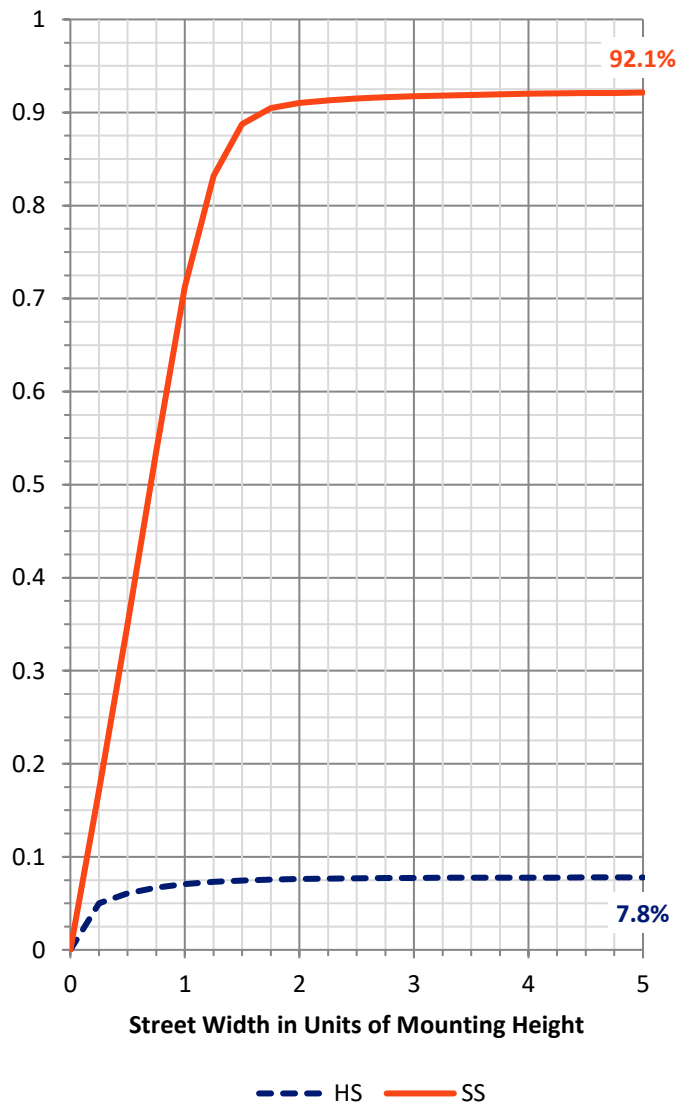
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2161.7	0.0	2161.7
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	25518.4	0.0	25518.4
	% Fixture	92.2	0.0	92.2
Total	Lumens	27680.1	0.0	27680.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.6	2.2
10°-20°	1499.1	5.4
20°-30°	2398.6	8.7
30°-40°	4059.7	14.7
40°-50°	6665.3	24.1
50°-60°	7325.6	26.5
60°-70°	4202.0	15.2
70°-80°	858.6	3.1
80°-90°	50.6	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°	27680.1	100.0
0°-180°	27680.1	100.0

Coefficient of Utilization



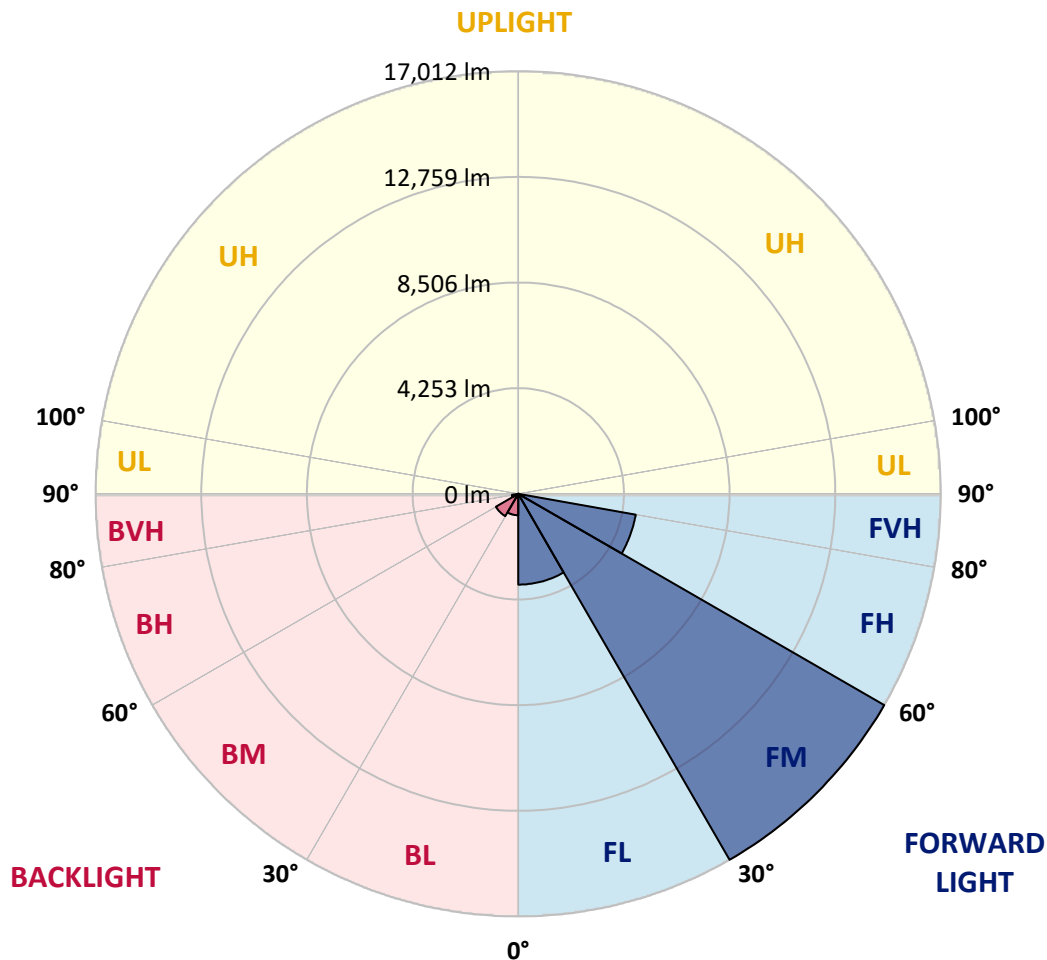
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3655.3	13.2			
FM (30°-60°)	17012.4	61.5			
FH (60°-80°)	4803.5	17.4			G2/5000
FVH (80°-90°)	47.2	0.2			G1/100
BL (0°-30°)	863.0	3.1	B2/1000		
BM (30°-60°)	1038.2	3.8	B2/2500		
BH (60°-80°)	257.1	0.9	B1/500		G1/500
BVH (80°-90°)	3.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2
2.5°	8276.4	8172.2	8156.8	8136.3	7938.4	7789.9	7574.9	7339.3	7074.8	6805.1	6685.6
5°	9561.6	9479.6	9464.2	9368.7	9143.4	8890.7	8508.4	8025.4	7532.2	6951.9	6702.7
7.5°	9810.8	9795.4	9865.4	9861.9	9831.3	9631.5	9308.9	8733.7	7993.1	7132.8	6747.1
10°	8699.6	8738.8	8947.1	9129.8	9623.0	9909.8	9839.8	9365.3	8467.5	7339.3	6796.6
12.5°	7687.5	7641.4	7789.9	7996.4	8569.9	9423.3	10060.0	9892.7	9010.3	7573.1	6870.0
15°	7052.5	7033.8	7117.4	7213.0	7650.0	8510.2	9803.9	10321.1	9532.6	7849.7	6980.9
17.5°	6849.5	6834.1	6859.7	6883.6	7166.9	7832.5	9194.6	10583.9	10032.7	8165.4	7103.8
20°	7015.0	6994.5	6991.1	6972.4	7090.1	7544.1	8643.3	10602.7	10481.5	8452.2	7209.5
22.5°	7498.1	7474.1	7390.5	7315.4	7325.7	7583.4	8397.5	10415.0	10819.5	8720.1	7276.2
25°	8373.6	8334.4	8160.2	7907.7	7747.3	7856.4	8435.0	10167.5	11142.1	8930.0	7243.7
27.5°	9469.4	9418.2	9194.6	8819.1	8452.2	8319.0	8706.5	9996.8	11410.1	9090.5	7173.8
30°	10542.9	10476.4	10256.3	9964.3	9428.5	9008.5	9196.3	10072.0	11729.2	9257.8	7081.5
32.5°	11701.9	11638.8	11346.9	10985.0	10541.3	9976.3	9867.1	10438.9	12120.1	9491.6	7016.7
35°	13168.1	13069.1	12654.3	12161.0	11689.9	11118.2	10775.1	11072.0	12640.7	9848.3	7052.5
37.5°	14837.3	14704.2	14257.0	13576.0	12961.5	12321.5	11881.1	11942.6	13403.6	10326.3	7163.5
40°	16411.0	16289.8	15876.7	15235.0	14463.6	13686.9	13217.6	13081.0	14456.7	10908.3	7358.1
42.5°	17354.9	17245.6	17071.6	16800.2	16149.9	15357.9	14765.6	14470.3	15702.7	11604.6	7595.4
45°	17407.8	17312.2	17546.1	17861.9	17733.8	17206.4	16484.4	15943.4	16953.8	12258.4	7841.1
47.5°	16561.2	16496.4	17206.4	18309.0	18858.6	19080.5	18414.8	17293.4	17986.4	12727.7	7941.8
50°	14253.6	14229.7	15690.7	17715.0	19287.0	20722.4	20451.0	18549.6	18786.9	12970.0	7846.3
52.5°	12359.0	12272.0	13123.7	15813.6	18664.0	21586.1	22441.1	19782.0	19346.8	13016.2	7622.6
55°	9373.8	9297.1	10365.5	12632.1	16655.1	21278.9	23897.1	21053.5	19747.9	12898.4	7221.5
57.5°	5028.2	4980.5	6330.6	8407.8	13019.6	19435.5	24160.0	22398.5	20085.8	12586.1	6659.9
60°	1957.7	1949.1	2454.4	4079.3	7912.8	15812.0	22833.7	23205.8	20297.5	12202.0	6190.6
62.5°	1184.5	1210.1	1292.0	1831.4	3495.6	9822.7	19776.9	22287.6	20439.1	11850.4	5803.1
65°	979.7	981.4	991.7	1257.9	1674.3	4110.0	14888.5	19266.5	20089.2	11224.1	5253.5
67.5°	839.8	855.2	894.4	998.5	1181.1	1802.4	8571.7	14924.4	17960.8	9766.4	4396.7
70°	662.3	682.8	732.3	821.0	911.4	1128.2	3167.9	9930.2	13721.1	7361.4	3324.9
72.5°	558.1	556.5	582.0	667.4	723.6	793.7	1218.6	5564.2	7974.2	3514.3	1645.3
75°	431.8	448.8	481.3	558.1	592.2	575.2	660.5	2032.8	2857.2	1065.1	559.9
77.5°	337.9	351.6	380.6	455.7	489.8	408.0	380.6	727.1	918.3	382.3	252.6
80°	151.9	163.9	259.4	336.2	399.4	281.7	206.5	372.1	408.0	174.0	128.0
82.5°	27.3	46.1	151.9	177.5	204.8	182.7	107.5	192.9	199.7	70.0	44.4
85°	1.7	3.4	52.9	64.9	81.9	59.8	32.4	76.8	66.5	23.9	17.1
87.5°	0.0	0.0	0.0	1.7	1.7	8.5	10.2	13.6	10.2	8.5	6.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2	6670.2
2.5°	6562.7	6320.4	6084.8	5891.9	5779.3	5588.1	5461.8	5441.3	5388.4	5434.4
5°	6436.4	6002.9	5564.2	5171.6	4849.1	4432.6	4121.9	3990.5	3876.1	3915.4
7.5°	6376.6	5692.2	5009.5	4338.7	3649.2	2983.5	2488.5	2282.1	2125.0	2147.2
10°	6296.5	5369.7	4299.5	3275.4	2352.0	1694.8	1353.5	1227.2	1157.2	1159.0
12.5°	6235.0	4983.9	3475.1	2220.6	1432.0	1082.1	976.3	945.6	925.1	926.8
15°	6204.2	4529.9	2660.9	1479.8	1024.1	916.6	890.9	877.3	863.7	861.9
17.5°	6153.1	4024.7	1947.5	1080.5	896.1	858.5	836.3	821.0	803.9	800.5
20°	6076.3	3451.2	1423.5	913.2	839.8	810.8	780.0	759.5	739.0	735.6
22.5°	5934.5	2845.3	1094.1	844.9	798.8	766.4	728.8	704.9	684.4	681.0
25°	5671.7	2276.9	921.7	802.2	762.9	723.6	682.8	650.3	631.5	628.1
27.5°	5338.9	1788.7	836.3	762.9	716.9	681.0	634.9	604.2	587.1	583.7
30°	4946.3	1377.4	786.8	718.5	662.3	631.5	590.6	565.0	554.7	554.7
32.5°	4523.0	1100.8	766.4	674.1	614.5	580.4	547.9	537.6	534.2	532.5
35°	4125.3	955.8	756.1	638.4	571.7	539.4	525.7	527.4	534.2	534.2
37.5°	3772.1	909.7	751.0	612.7	534.2	505.2	513.7	529.1	522.2	522.2
40°	3452.9	914.8	747.6	594.0	503.5	486.5	503.5	491.6	474.5	472.8
42.5°	3208.8	957.6	740.8	578.6	484.7	472.8	466.0	447.2	445.5	448.8
45°	3031.3	995.1	739.0	571.7	464.2	442.1	433.6	414.7	448.8	457.5
47.5°	2821.3	995.1	739.0	547.9	430.1	421.6	408.0	387.4	421.6	430.1
50°	2550.0	931.9	710.0	520.6	402.8	397.7	373.8	348.2	341.3	346.4
52.5°	2206.9	817.5	636.6	483.0	375.5	365.2	336.2	317.4	312.3	312.3
55°	1816.1	684.4	537.6	428.4	346.4	327.7	307.2	298.7	293.6	290.2
57.5°	1476.4	561.5	431.8	380.6	319.2	295.3	288.4	278.2	269.7	264.6
60°	1211.9	442.1	356.7	337.9	291.8	269.7	267.9	254.3	232.2	228.7
62.5°	935.3	324.3	300.4	293.6	264.6	245.8	242.4	215.0	180.9	174.0
65°	660.5	252.6	242.4	257.7	235.5	218.4	209.9	169.0	133.1	128.0
67.5°	464.2	211.7	191.2	225.3	204.8	182.7	177.5	143.4	110.9	107.5
70°	331.1	172.4	157.0	192.9	163.9	160.4	150.2	119.5	90.5	87.0
72.5°	233.8	131.4	121.2	167.3	112.6	138.3	122.9	92.1	68.3	64.9
75°	172.4	93.9	85.4	97.3	81.9	104.1	87.0	61.4	42.6	41.0
77.5°	126.3	59.8	51.2	47.8	47.8	64.9	47.8	25.6	18.8	17.1
80°	88.8	27.3	23.9	20.5	18.8	15.4	6.9	3.4	1.7	1.7
82.5°	52.9	12.0	12.0	8.5	5.1	0.0	0.0	0.0	0.0	0.0
85°	12.0	5.1	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	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)