

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: P970939

Luminaire Tested: **NAV-SB6C-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970939
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-750-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 5000K, 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: 41990.1 lumens
Efficiency: N/A
Efficacy: 139.5 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

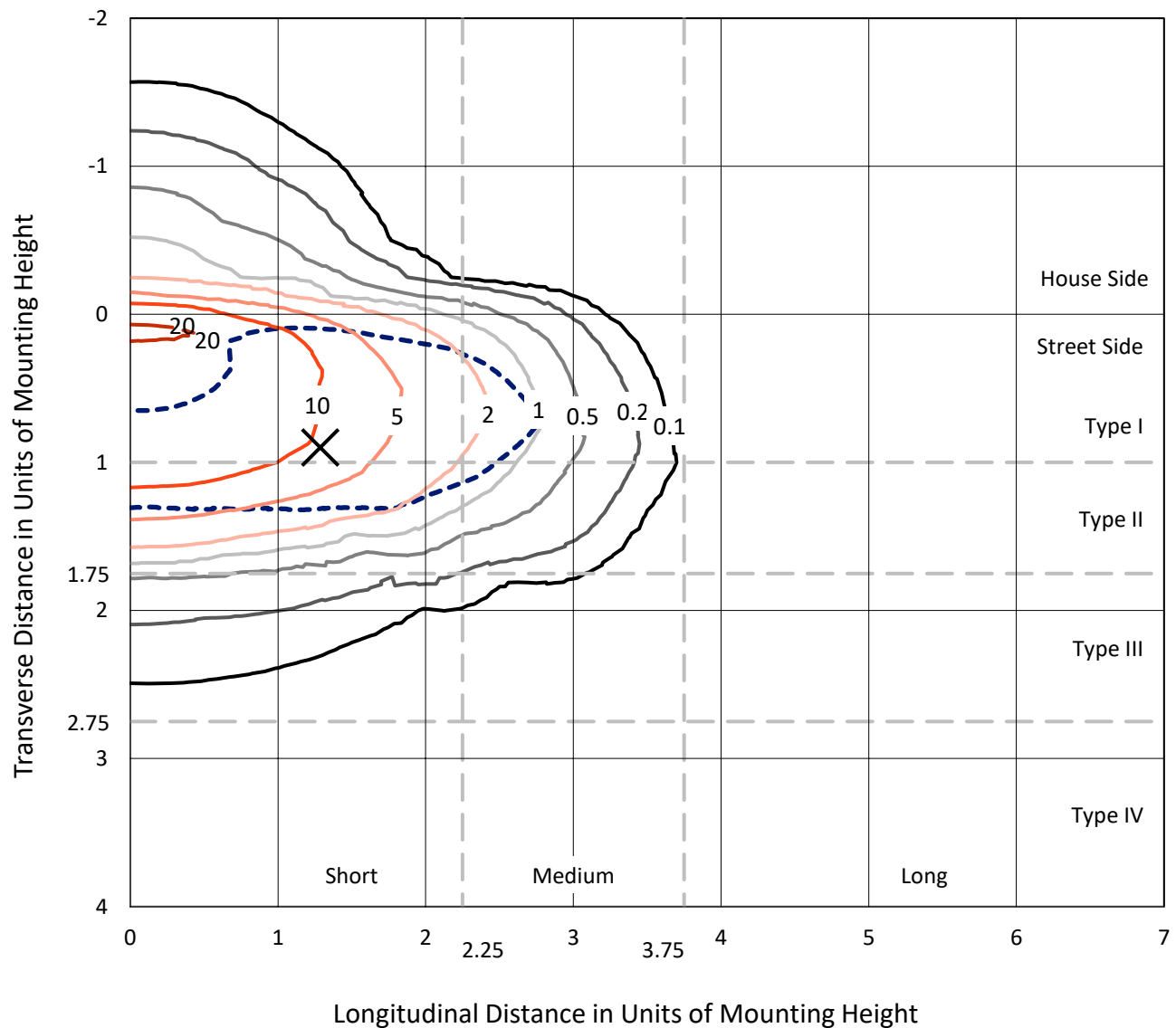


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Iso-Footcandle Lines of Horizontal Illumination

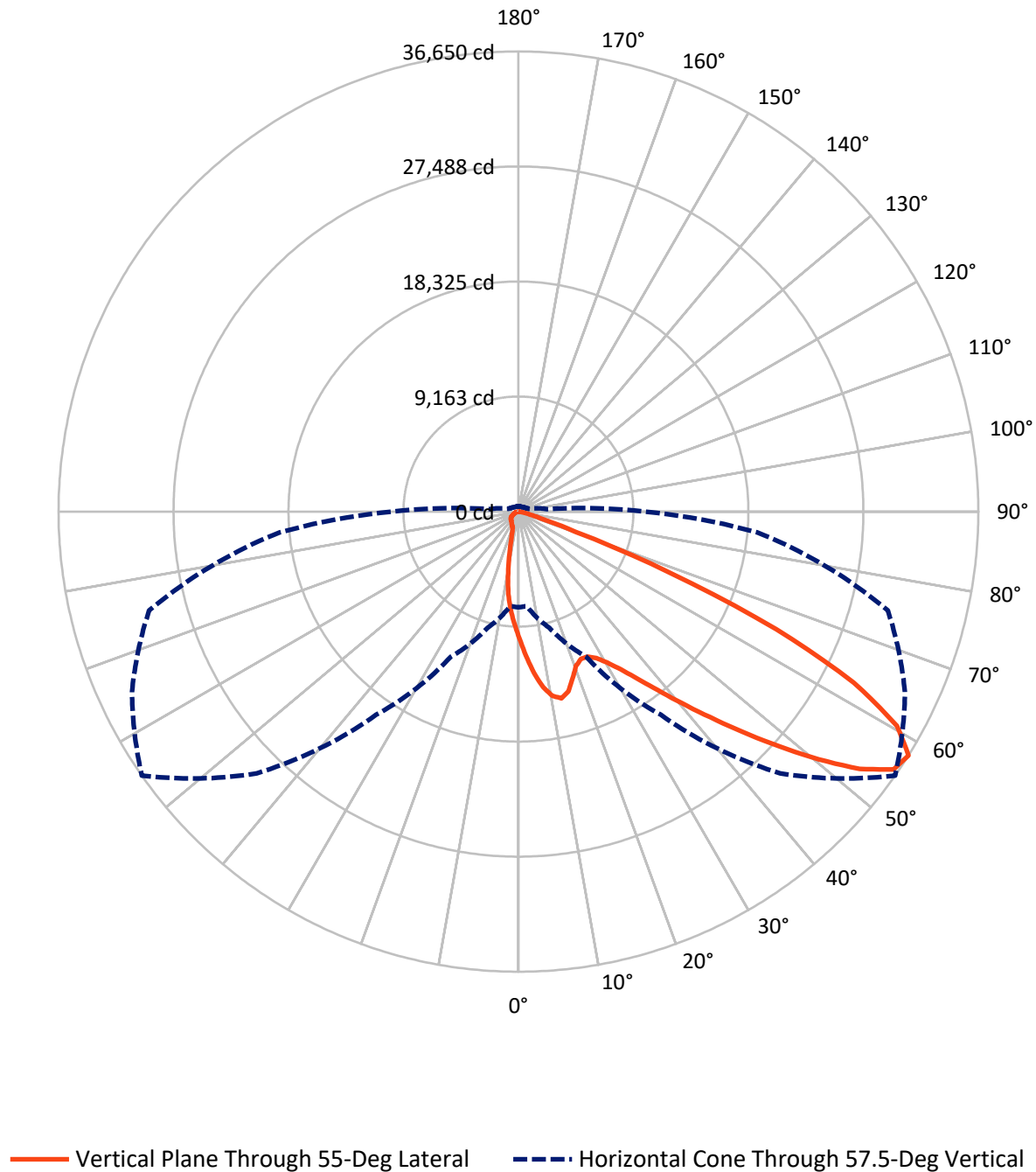
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.2 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3279.3	0.0	3279.3
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	38710.9	0.0	38710.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	41990.1	0.0	41990.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	941.5	2.2
10°-20°	2274.1	5.4
20°-30°	3638.6	8.7
30°-40°	6158.6	14.7
40°-50°	10111.0	24.1
50°-60°	11112.8	26.5
60°-70°	6374.3	15.2
70°-80°	1302.5	3.1
80°-90°	76.8	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°	41990.1	100.0
0°-180°	41990.1	100.0

Coefficient of Utilization



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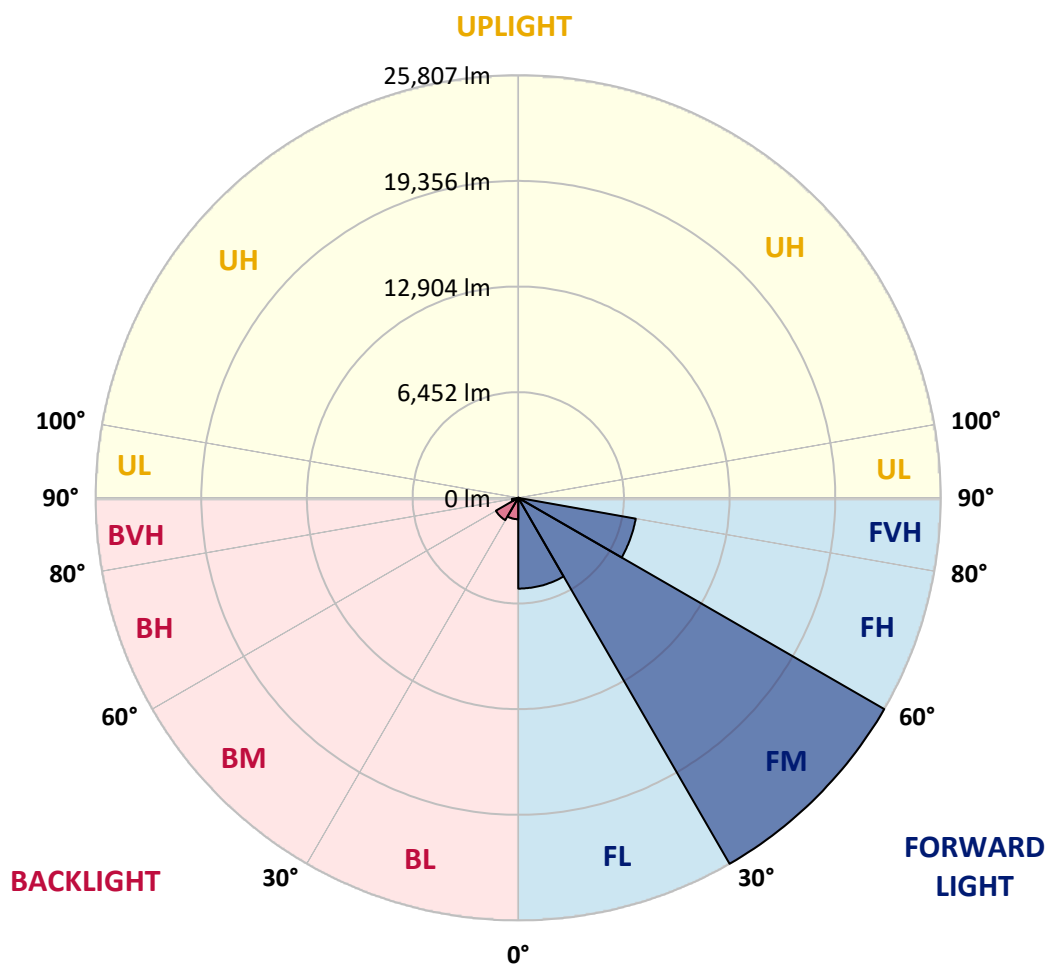
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5545.1	13.2			
FM	(30°-60°)	25807.4	61.5			
FH	(60°-80°)	7286.7	17.4			G3/7500
FVH	(80°-90°)	71.7	0.2			G1/100
BL	(0°-30°)	1309.2	3.1	B3/2500		
BM	(30°-60°)	1574.9	3.8	B2/2500		
BH	(60°-80°)	390.0	0.9	B1/500		G1/500
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6
2.5°	12555.0	12397.1	12373.8	12342.7	12042.4	11817.1	11490.9	11133.6	10732.3	10323.2	10141.9
5°	14504.7	14380.4	14357.1	14212.1	13870.3	13487.2	12907.2	12174.4	11426.2	10545.8	10167.8
7.5°	14882.7	14859.4	14965.6	14960.4	14913.7	14610.9	14121.5	13248.9	12125.2	10820.3	10235.1
10°	13197.2	13256.7	13572.5	13849.6	14597.9	15032.9	14926.8	14206.9	12845.0	11133.6	10310.2
12.5°	11661.7	11591.8	11817.1	12130.4	13000.4	14295.0	15260.7	15007.0	13668.4	11488.3	10421.5
15°	10698.5	10670.0	10796.9	10942.0	11604.7	12909.8	14872.3	15656.9	14460.7	11907.7	10589.8
17.5°	10390.4	10367.2	10406.0	10442.3	10872.1	11881.8	13948.0	16055.6	15219.3	12386.7	10776.2
20°	10641.7	10610.5	10605.4	10576.9	10755.5	11444.2	13111.7	16084.1	15900.3	12821.7	10936.7
22.5°	11374.3	11338.1	11211.2	11097.3	11112.8	11503.8	12738.9	15799.2	16412.9	13228.2	11037.7
25°	12702.6	12643.1	12378.9	11995.8	11752.3	11918.1	12795.8	15423.9	16902.2	13546.7	10988.5
27.5°	14364.9	14287.2	13948.0	13378.4	12821.7	12619.8	13207.5	15165.0	17308.8	13790.0	10882.4
30°	15993.5	15892.5	15558.5	15115.8	14302.7	13665.8	13950.6	15278.9	17793.0	14043.8	10742.6
32.5°	17751.6	17655.7	17213.0	16664.0	15990.9	15133.9	14968.2	15835.5	18385.9	14398.6	10644.2
35°	19975.7	19825.6	19196.3	18448.1	17733.4	16866.1	16345.6	16796.2	19175.6	14939.7	10698.5
37.5°	22507.9	22305.9	21627.6	20594.5	19662.4	18691.4	18023.4	18116.7	20333.0	15664.7	10866.8
40°	24895.2	24711.3	24084.7	23111.2	21940.8	20762.8	20050.7	19843.6	21930.5	16547.6	11162.0
42.5°	26327.0	26161.3	25897.1	25485.5	24499.0	23297.6	22399.1	21951.2	23820.6	17604.0	11521.9
45°	26407.3	26262.2	26617.0	27096.0	26901.7	26101.7	25006.5	24185.7	25718.5	18595.7	11894.8
47.5°	25123.0	25024.7	26101.7	27774.3	28608.1	28944.7	27934.8	26233.7	27285.0	19307.6	12047.5
50°	21622.4	21586.2	23802.6	26873.3	29257.9	31435.5	31023.8	28139.4	28499.3	19675.3	11902.5
52.5°	18748.4	18616.4	19908.4	23988.9	28312.9	32745.6	34042.8	30008.8	29348.6	19745.2	11563.3
55°	14219.9	14103.4	15724.2	19162.7	25265.4	32279.5	36251.4	31937.8	29957.1	19566.5	10954.9
57.5°	7627.7	7555.3	9603.3	12754.4	19750.4	29483.2	36650.1	33978.0	30469.7	19092.8	10103.0
60°	2969.8	2956.8	3723.3	6188.2	12003.6	23986.3	34638.3	35202.8	30790.8	18510.2	9391.0
62.5°	1796.9	1835.8	1960.0	2778.2	5302.6	14900.8	30001.0	33809.7	31005.6	17976.9	8803.3
65°	1486.2	1488.8	1504.3	1908.2	2540.1	6234.8	22585.6	29226.8	30474.9	17026.6	7969.6
67.5°	1273.9	1297.2	1356.7	1514.6	1791.7	2734.2	13002.9	22640.0	27246.1	14815.4	6669.8
70°	1004.6	1035.7	1110.8	1245.4	1382.6	1711.4	4805.5	15063.9	20814.6	11167.2	5043.7
72.5°	846.6	844.1	882.9	1012.4	1097.8	1204.0	1848.7	8440.8	12096.7	5331.1	2496.0
75°	655.1	681.0	730.1	846.6	898.4	872.6	1002.0	3083.7	4334.3	1615.7	849.2
77.5°	512.7	533.4	577.4	691.4	743.1	618.8	577.4	1103.0	1393.0	579.9	383.2
80°	230.4	248.6	393.6	510.0	605.9	427.2	313.3	564.5	618.8	264.1	194.2
82.5°	41.4	69.9	230.4	269.3	310.7	277.1	163.1	292.5	302.9	106.2	67.3
85°	2.6	5.2	80.3	98.4	124.3	90.6	49.2	116.5	101.0	36.3	25.9
87.5°	0.0	0.0	0.0	2.6	2.6	12.9	15.6	20.7	15.6	12.9	10.4
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°	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6	10118.6
2.5°	9955.5	9587.8	9230.5	8937.9	8767.0	8477.1	8285.5	8254.3	8174.1	8244.0
5°	9763.8	9106.2	8440.8	7845.2	7355.9	6724.1	6252.9	6053.5	5880.1	5939.7
7.5°	9673.2	8635.0	7599.4	6581.7	5535.7	4525.9	3775.1	3461.7	3223.5	3257.2
10°	9551.6	8145.6	6522.2	4968.7	3567.9	2571.1	2053.3	1861.6	1755.5	1758.1
12.5°	9458.4	7560.5	5271.6	3368.6	2172.4	1641.5	1481.0	1434.4	1403.3	1405.9
15°	9411.8	6871.7	4036.6	2244.9	1553.5	1390.4	1351.6	1330.9	1310.2	1307.6
17.5°	9334.1	6105.3	2954.3	1639.0	1359.4	1302.4	1268.7	1245.4	1219.5	1214.3
20°	9217.5	5235.4	2159.4	1385.2	1273.9	1229.9	1183.3	1152.2	1121.1	1115.9
22.5°	9002.7	4316.2	1659.7	1281.7	1211.8	1162.6	1105.6	1069.4	1038.2	1033.1
25°	8604.0	3453.9	1398.2	1216.9	1157.3	1097.8	1035.7	986.5	958.0	952.8
27.5°	8099.0	2713.5	1268.7	1157.3	1087.4	1033.1	963.2	916.6	890.7	885.5
30°	7503.5	2089.5	1193.6	1090.1	1004.6	958.0	895.8	857.0	841.5	841.5
32.5°	6861.4	1670.0	1162.6	1022.7	932.1	880.4	831.2	815.6	810.5	807.8
35°	6258.1	1450.0	1147.0	968.3	867.4	818.2	797.4	800.0	810.5	810.5
37.5°	5722.2	1380.1	1139.3	929.6	810.5	766.4	779.3	802.7	792.3	792.3
40°	5238.0	1387.8	1134.1	901.1	763.8	737.9	763.8	745.7	719.8	717.2
42.5°	4867.7	1452.5	1123.7	877.7	735.3	717.2	706.8	678.3	675.8	681.0
45°	4598.5	1509.5	1121.1	867.4	704.3	670.6	657.6	629.1	681.0	693.9
47.5°	4280.0	1509.5	1121.1	831.2	652.5	639.5	618.8	587.7	639.5	652.5
50°	3868.2	1413.7	1077.1	789.7	611.0	603.3	567.0	528.2	517.8	525.6
52.5°	3347.9	1240.2	965.8	732.8	569.6	554.1	510.0	481.5	473.9	473.9
55°	2754.9	1038.2	815.6	649.8	525.6	497.1	466.1	453.2	445.4	440.1
57.5°	2239.6	851.9	655.1	577.4	484.2	447.9	437.6	422.0	409.1	401.3
60°	1838.3	670.6	541.1	512.7	442.8	409.1	406.5	385.8	352.1	347.0
62.5°	1418.9	491.9	455.7	445.4	401.3	372.9	367.7	326.3	274.5	264.1
65°	1002.0	383.2	367.7	390.9	357.3	331.4	318.5	256.4	201.9	194.2
67.5°	704.3	321.0	290.0	341.7	310.7	277.1	269.3	217.5	168.3	163.1
70°	502.4	261.5	238.2	292.5	248.6	243.3	227.9	181.2	137.2	132.0
72.5°	354.8	199.4	183.8	253.8	170.9	209.7	186.4	139.8	103.5	98.4
75°	261.5	142.4	129.5	147.6	124.3	158.0	132.0	93.2	64.8	62.1
77.5°	191.6	90.6	77.7	72.5	72.5	98.4	72.5	38.8	28.5	25.9
80°	134.7	41.4	36.3	31.1	28.5	23.3	10.4	5.2	2.6	2.6
82.5°	80.3	18.1	18.1	12.9	7.8	0.0	0.0	0.0	0.0	0.0
85°	18.1	7.8	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	2.6	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)