

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: P959948

Luminaire Tested: **NAV-SB1B-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

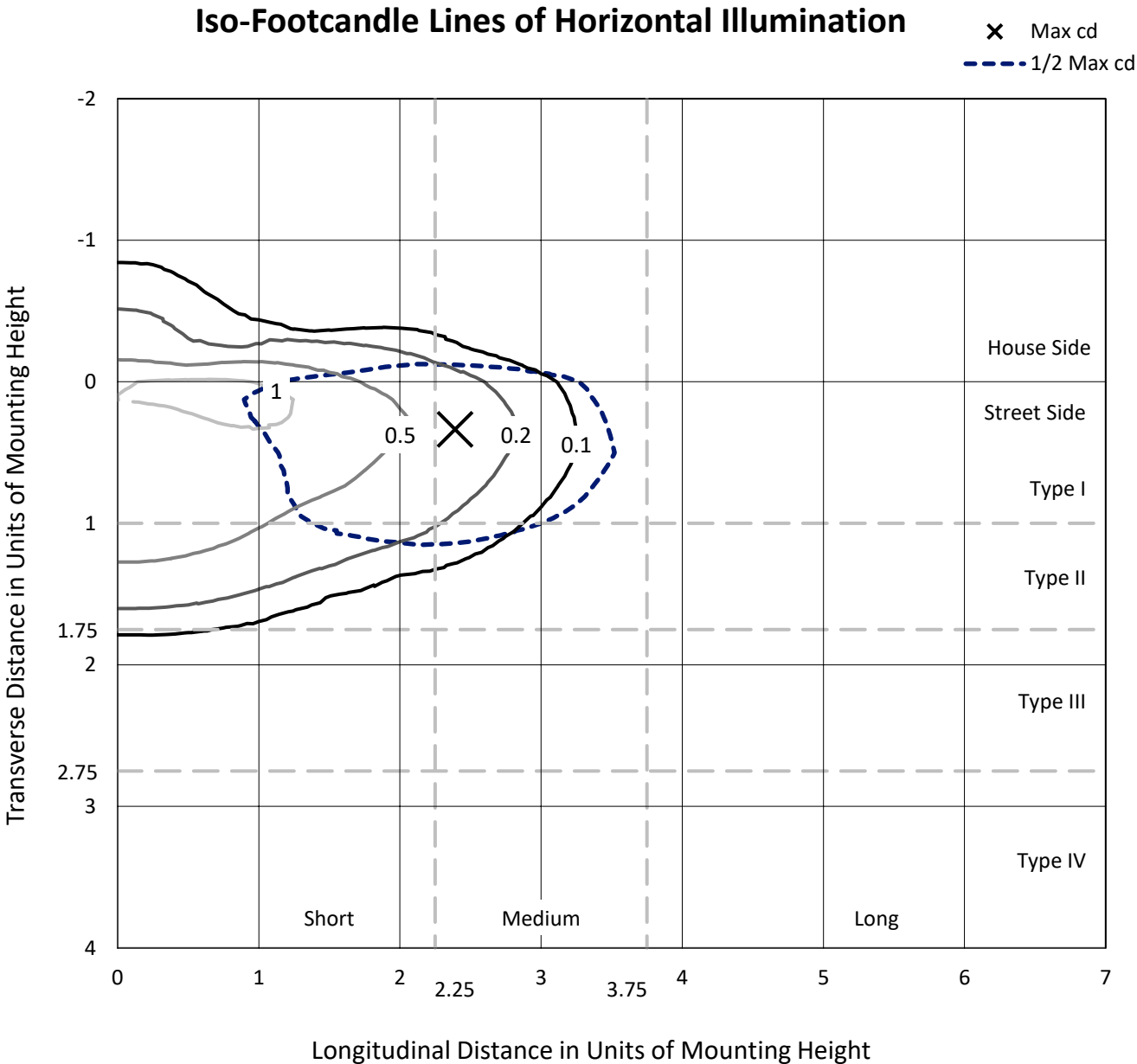
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3666.4 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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



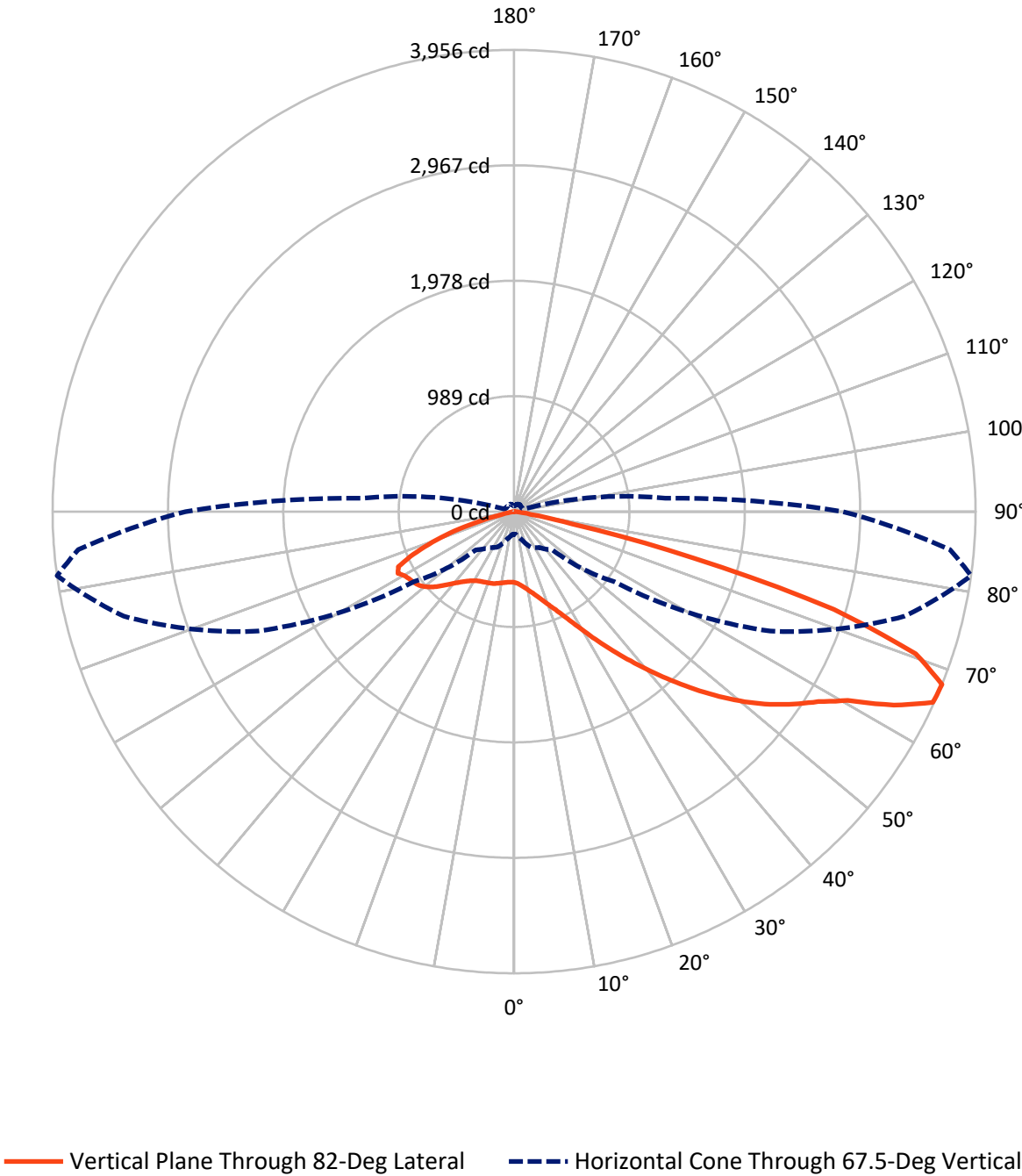
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Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	664.1	0.0	664.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3002.3	0.0	3002.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	3666.4	0.0	3666.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.1	1.5
10°-20°	140.6	3.8
20°-30°	225.2	6.1
30°-40°	398.3	10.9
40°-50°	697.8	19.0
50°-60°	930.7	25.4
60°-70°	866.4	23.6
70°-80°	332.5	9.1
80°-90°	20.6	0.6
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°	3666.4	100.0
0°-180°	3666.4	100.0

Coefficient of Utilization



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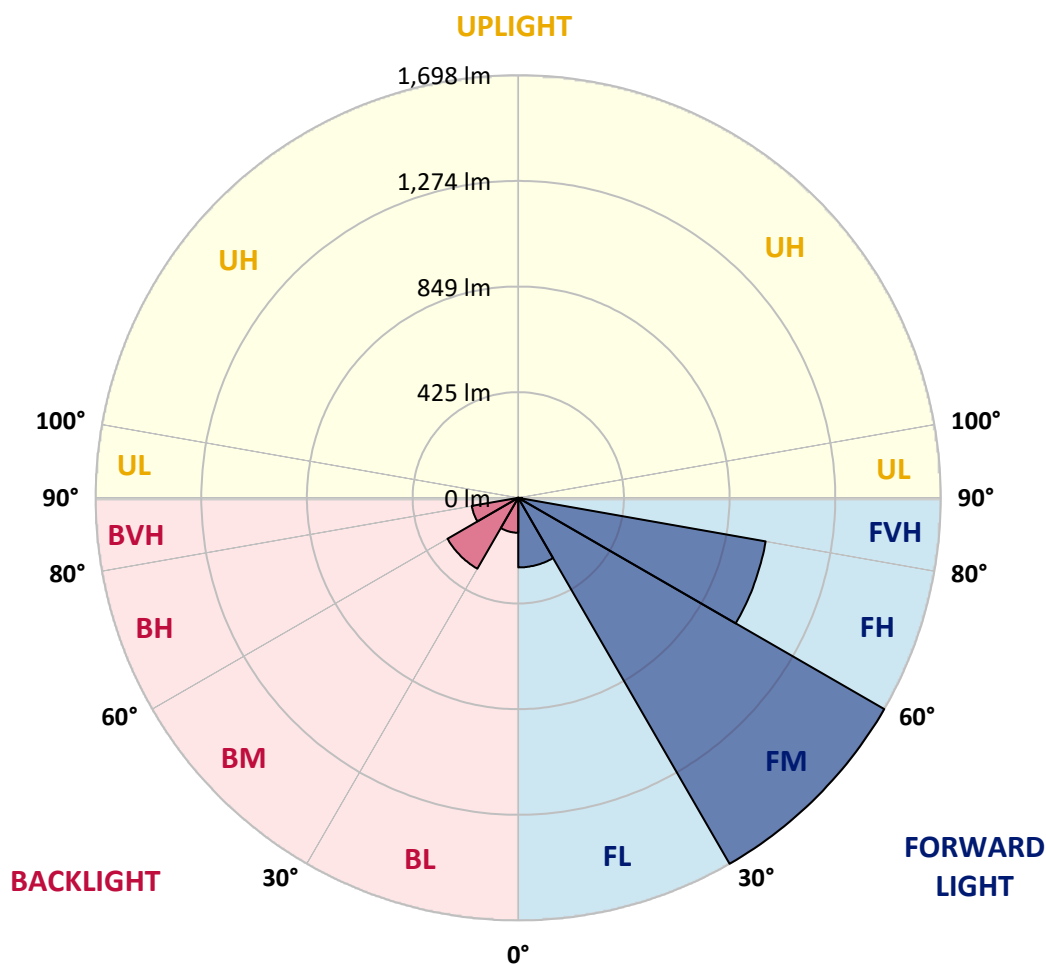
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	279.7	7.6			
FM	(30°-60°)	1698.1	46.3			
FH	(60°-80°)	1009.4	27.5			G1/1800
FVH	(80°-90°)	15.0	0.4			G1/100
BL	(0°-30°)	140.3	3.8	B1/500		
BM	(30°-60°)	328.7	9.0	B1/1000		
BH	(60°-80°)	189.6	5.2	B1/500		G1/500
BVH	(80°-90°)	5.6	0.2			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4
2.5°	642.0	645.6	643.6	642.5	640.6	638.1	635.9	629.3	622.5	618.0	616.3
5°	654.9	658.6	658.4	659.4	660.7	661.5	661.0	653.6	643.8	636.2	631.7
7.5°	643.8	648.0	651.5	656.7	666.0	675.8	680.5	679.0	668.9	658.4	652.8
10°	612.4	616.9	625.0	637.4	657.0	678.1	695.9	704.0	697.7	686.0	678.4
12.5°	554.8	559.3	575.4	602.4	635.1	671.8	705.6	727.5	729.1	717.5	708.5
15°	490.2	494.7	511.9	545.6	595.5	654.4	710.8	752.3	766.3	756.2	745.5
17.5°	450.1	454.1	467.0	494.2	546.1	619.5	709.0	778.7	810.7	802.8	789.8
20°	438.0	441.4	447.4	466.5	509.7	583.4	696.9	803.5	858.4	853.9	839.5
22.5°	450.9	454.1	455.9	464.3	491.5	559.6	681.6	828.9	913.9	914.4	896.7
25°	480.7	483.9	481.7	487.1	498.9	552.3	675.8	858.7	983.6	989.3	969.3
27.5°	529.8	530.0	525.0	524.8	526.6	563.3	681.8	890.6	1071.4	1082.3	1057.5
30°	628.2	624.3	605.1	584.1	574.7	596.6	698.7	928.4	1175.2	1194.4	1163.4
32.5°	780.0	774.2	738.8	689.0	638.8	650.2	729.1	971.4	1288.2	1323.1	1285.0
35°	944.7	943.2	906.2	832.1	744.4	726.4	778.5	1027.9	1411.4	1466.9	1421.8
37.5°	1097.9	1097.1	1075.9	988.6	881.9	832.8	857.6	1101.9	1543.4	1623.7	1570.4
40°	1237.8	1240.1	1219.0	1140.9	1033.4	969.3	965.3	1193.2	1690.2	1794.5	1731.1
42.5°	1358.6	1361.3	1339.9	1282.1	1183.2	1120.3	1097.6	1305.1	1833.5	1977.9	1903.0
45°	1440.7	1457.1	1454.0	1407.7	1336.8	1271.5	1256.5	1445.6	1997.0	2172.5	2084.6
47.5°	1464.0	1479.1	1502.8	1509.1	1465.9	1401.7	1419.6	1614.7	2162.2	2367.3	2267.3
50°	1406.7	1420.8	1470.1	1535.8	1565.9	1546.1	1578.3	1796.1	2331.4	2561.6	2446.5
52.5°	1293.8	1308.0	1370.3	1474.3	1597.1	1659.4	1737.5	1974.8	2495.4	2745.6	2616.2
55°	1130.4	1145.3	1225.4	1343.1	1537.6	1706.0	1870.2	2153.2	2645.5	2911.1	2769.3
57.5°	908.0	919.1	1002.3	1167.1	1388.3	1659.6	1968.2	2348.1	2787.1	3073.7	2921.1
60°	591.8	601.6	698.2	881.9	1140.6	1504.4	1987.7	2565.3	2975.0	3285.1	3125.7
62.5°	393.6	400.2	457.5	592.3	803.3	1206.3	1873.4	2738.7	3250.6	3653.1	3476.5
65°	270.1	276.6	333.9	427.9	519.0	798.0	1544.8	2715.7	3500.3	3945.3	3736.5
67.5°	192.7	198.2	246.8	335.5	375.7	463.5	1047.1	2422.2	3464.4	3956.4	3750.6
70°	138.1	141.2	181.3	261.4	298.6	278.5	582.3	1852.6	3033.3	3653.4	3464.9
72.5°	96.7	97.7	125.9	199.1	240.5	203.3	277.2	1235.1	2294.2	2867.5	2686.2
75°	65.5	66.8	84.8	146.0	193.0	155.2	146.8	662.4	1346.7	1587.3	1422.8
77.5°	40.1	40.7	54.6	99.7	144.4	118.3	94.5	280.6	521.1	511.6	436.0
80°	22.7	22.7	34.8	62.0	98.5	76.3	66.2	119.3	165.0	144.9	127.7
82.5°	12.7	12.9	25.3	38.5	65.2	45.1	36.4	55.1	71.2	63.1	54.9
85°	5.3	5.8	15.6	18.2	31.2	22.4	14.8	23.3	26.4	23.5	17.1
87.5°	0.5	0.8	4.7	3.4	3.7	4.5	2.2	4.5	3.7	3.7	2.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4	607.4
2.5°	611.4	607.4	597.4	585.8	570.4	563.0	553.0	546.1	540.4	540.9	535.6
5°	623.2	613.3	590.8	562.8	528.0	503.2	476.7	458.5	443.7	440.5	433.5
7.5°	639.6	623.8	584.5	534.0	475.2	430.5	390.7	365.1	346.9	341.0	335.3
10°	660.7	637.8	576.3	497.8	413.1	356.4	313.6	293.6	281.2	277.0	273.8
12.5°	685.3	653.8	565.4	453.8	349.2	294.6	267.4	257.4	253.4	252.0	251.3
15°	716.2	673.9	549.1	401.5	295.1	256.9	245.2	244.0	244.5	244.0	243.6
17.5°	752.9	695.9	522.4	347.7	258.7	237.6	233.4	234.4	235.7	235.4	234.9
20°	792.9	717.5	488.3	299.9	233.9	223.9	221.5	222.5	223.6	223.0	222.8
22.5°	838.7	740.7	450.6	262.6	217.3	211.2	208.6	208.8	208.8	207.8	207.3
25°	893.3	766.3	411.0	236.3	204.6	199.9	196.7	195.6	194.0	190.9	190.3
27.5°	958.5	793.5	373.0	217.8	194.5	190.0	186.3	183.7	179.8	174.5	173.9
30°	1031.9	826.5	340.8	206.1	186.7	182.1	177.9	173.9	168.1	161.5	161.0
32.5°	1118.2	861.9	317.3	198.5	179.5	174.8	169.7	165.0	158.7	152.0	152.3
35°	1221.2	904.7	303.6	193.2	173.9	167.6	162.1	156.8	152.0	146.3	145.8
37.5°	1332.8	950.1	299.3	190.5	170.3	160.5	154.2	150.5	150.0	146.5	146.3
40°	1455.0	1003.9	302.5	189.0	166.3	153.6	146.8	146.0	147.3	141.2	141.4
42.5°	1584.3	1067.7	307.8	187.2	160.7	146.8	140.2	140.2	139.1	130.7	130.7
45°	1724.3	1141.4	313.0	182.7	154.2	139.9	134.9	133.0	128.5	120.3	120.1
47.5°	1865.2	1216.4	317.0	174.5	146.3	134.1	129.6	125.4	118.8	111.4	111.1
50°	1999.1	1283.7	312.8	162.4	137.2	128.5	123.8	118.0	110.9	105.9	105.1
52.5°	2118.7	1342.0	294.9	148.1	127.7	122.8	118.5	112.4	106.6	101.4	100.9
55°	2222.6	1389.3	263.2	134.6	119.3	117.8	113.5	105.9	97.9	93.5	93.0
57.5°	2322.4	1425.2	223.6	123.5	111.6	112.2	105.9	99.0	91.6	86.8	86.3
60°	2455.2	1473.2	183.5	113.3	103.5	105.1	98.2	93.2	83.9	77.9	77.1
62.5°	2667.5	1548.0	145.8	100.6	94.0	94.5	91.6	85.5	74.4	67.3	66.8
65°	2835.9	1520.5	114.8	86.8	83.1	83.9	83.9	77.4	65.5	57.3	56.5
67.5°	2816.9	1302.0	91.6	73.4	72.9	73.4	75.2	69.7	58.1	51.5	50.4
70°	2594.9	1035.6	73.4	61.0	63.3	62.0	67.3	63.7	52.3	45.7	44.9
72.5°	2117.3	746.0	56.0	50.4	48.6	50.6	60.7	57.3	43.6	36.2	35.4
75°	1237.3	398.1	41.7	39.9	35.2	42.2	53.8	48.8	33.2	26.6	25.8
77.5°	402.8	138.9	30.6	29.3	26.1	34.0	45.9	41.2	27.2	21.1	20.3
80°	107.9	41.9	20.8	19.3	16.9	25.3	36.4	32.7	19.6	13.7	13.4
82.5°	43.3	17.7	12.1	10.9	9.2	17.4	28.8	26.4	14.6	8.7	8.7
85°	13.9	5.8	4.5	3.4	4.2	10.9	17.1	17.9	10.2	4.5	3.4
87.5°	1.8	0.8	0.8	1.0	0.8	1.8	5.3	5.0	2.9	0.5	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)