

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: P881548

Luminaire Tested: **NAV-SB1A-730-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1A-730-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3466 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

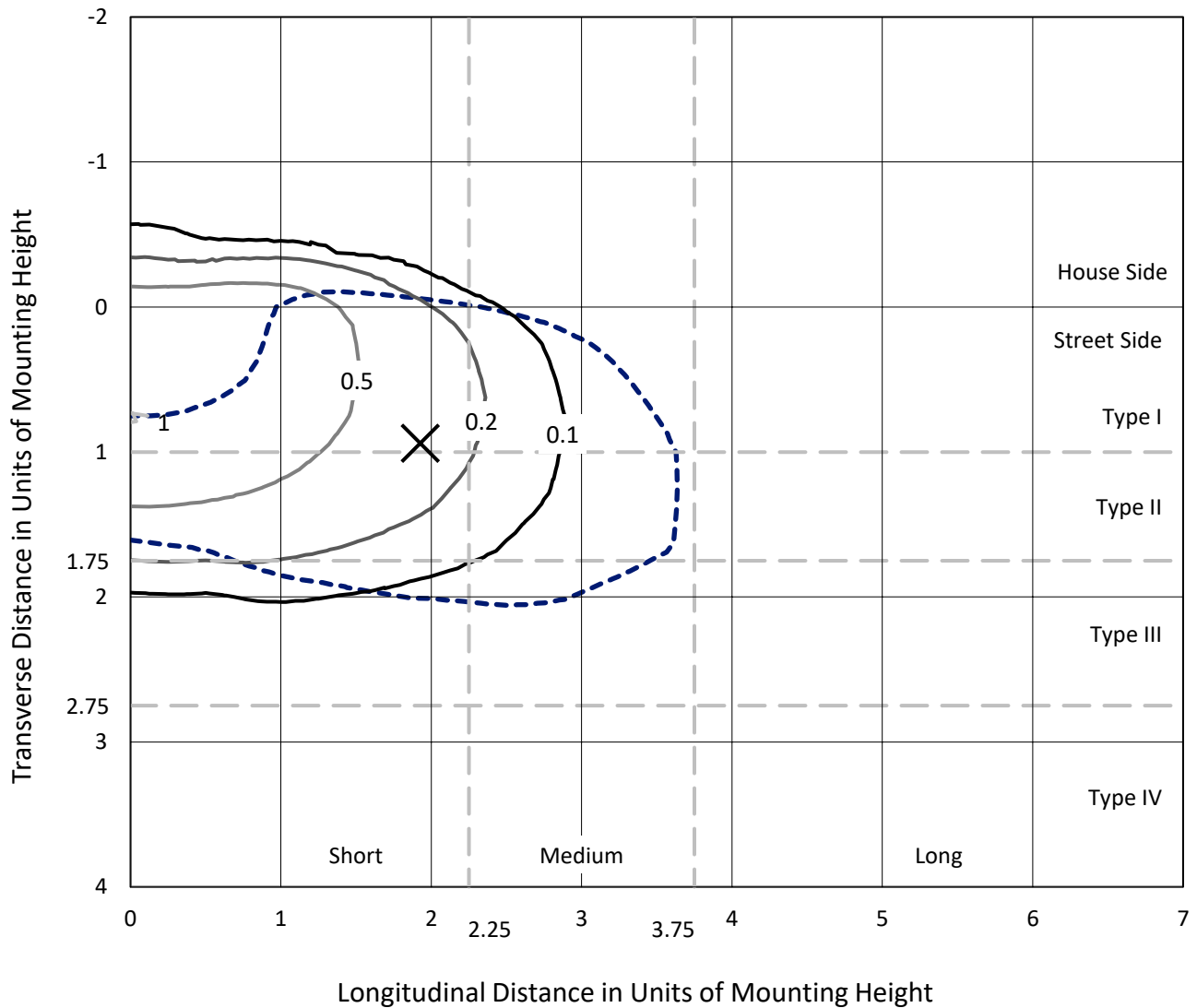
Input Watts (W): 30.9
Input Voltage (V): 120.0
Input Current (Ain): 0.263
Voltage Rise (V): NR
Power Factor: 0.995
Total Harmonic Distortion (THDi): 6.356
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

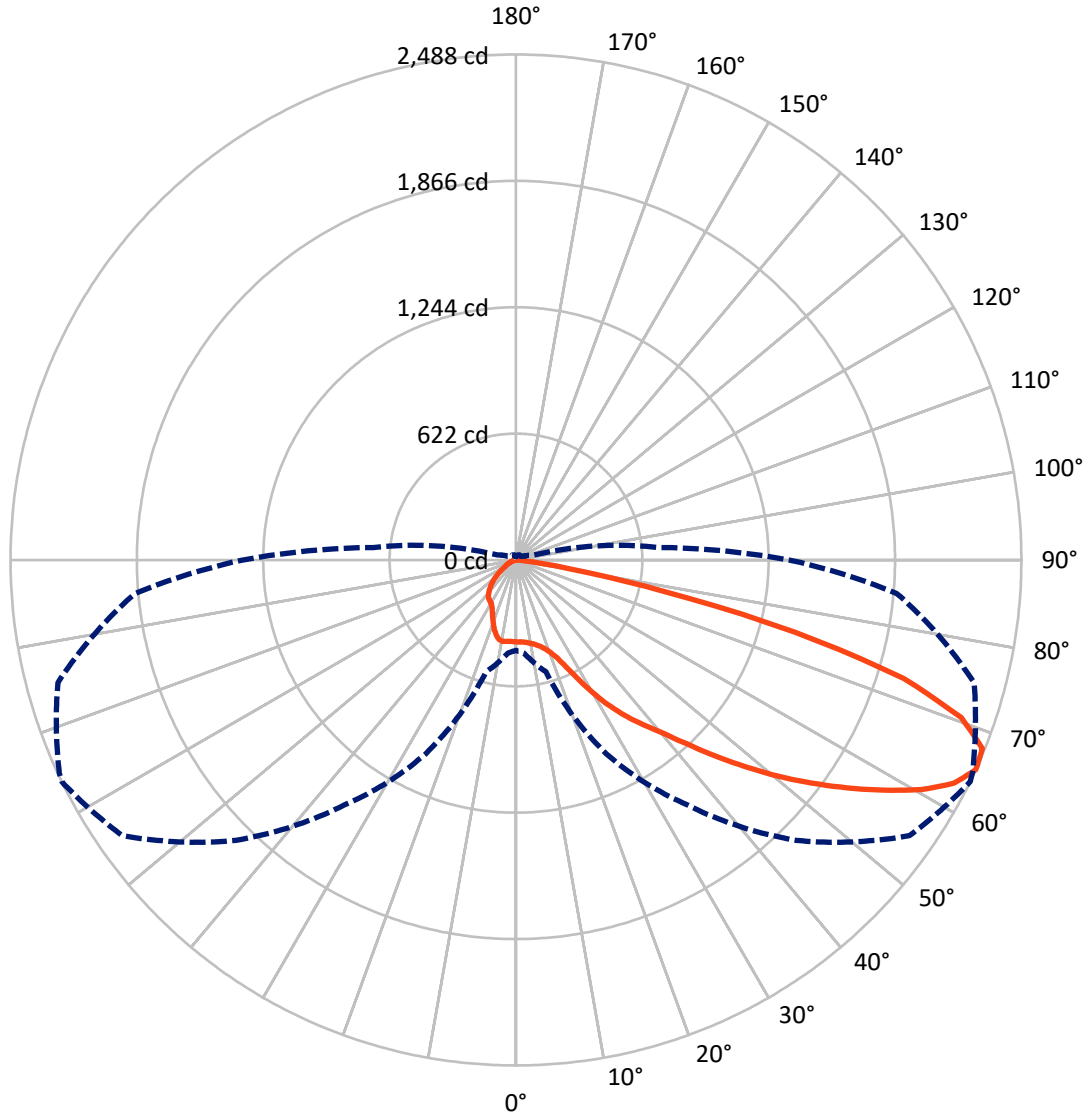
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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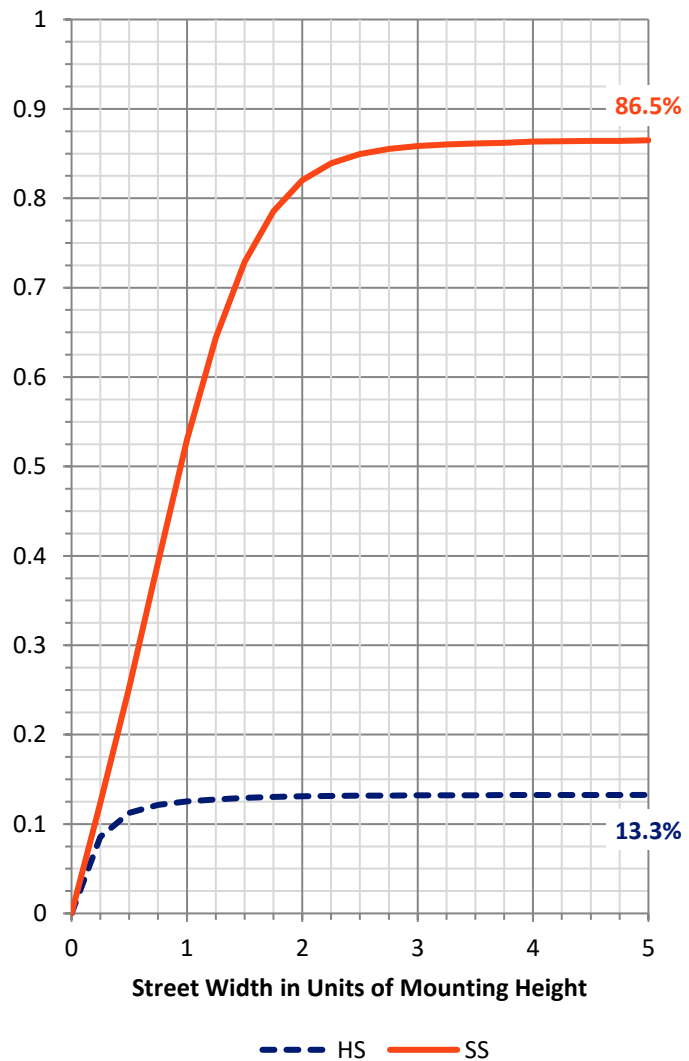
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	463.5	0.0	463.5
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	3002.5	0.0	3002.5
	% Fixture	86.6	0.0	86.6
Total	Lumens	3466.0	0.0	3466.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.2	1.1
10°-20°	100.9	2.9
20°-30°	191.2	5.5
30°-40°	386.8	11.2
40°-50°	658.9	19.0
50°-60°	896.1	25.9
60°-70°	841.5	24.3
70°-80°	337.1	9.7
80°-90°	16.3	0.5
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°	3466.0	100.0
0°-180°	3466.0	100.0

Coefficient of Utilization



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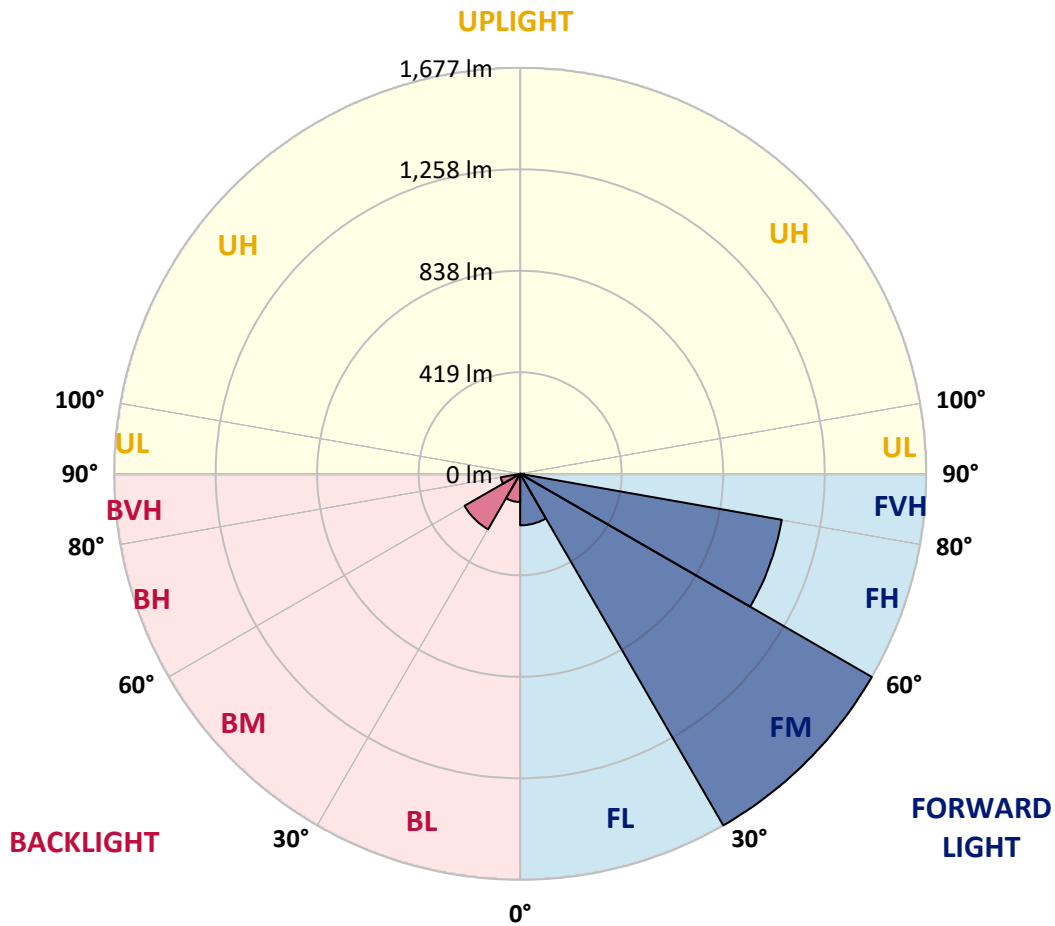
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.9	6.1			
FM (30°-60°)	1676.8	48.4			
FH (60°-80°)	1097.3	31.7			G1/1800
FVH (80°-90°)	15.5	0.4			G1/100
BL (0°-30°)	116.4	3.4	B1/500		
BM (30°-60°)	265.0	7.6	B1/1000		
BH (60°-80°)	81.3	2.3	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1
2.5°	401.7	404.5	403.8	403.1	402.9	403.4	403.6	403.4	403.4	403.4	403.6
5°	394.1	396.4	396.4	398.0	400.3	403.1	405.2	405.7	406.2	406.8	406.6
7.5°	379.4	381.3	382.7	388.0	393.8	401.3	407.5	410.8	411.3	413.8	414.7
10°	369.4	371.8	374.1	379.7	388.0	399.2	409.9	417.8	418.9	425.0	427.8
12.5°	369.0	371.3	374.3	380.4	390.1	402.0	415.0	426.4	428.5	437.3	443.1
15°	373.9	376.6	379.4	386.9	397.3	411.7	425.7	439.8	441.9	454.5	460.8
17.5°	383.8	387.6	389.7	397.1	408.2	424.3	442.6	458.9	460.8	475.4	483.3
20°	403.6	408.0	408.7	414.7	425.7	442.9	464.7	484.9	487.2	504.0	512.8
22.5°	444.5	450.8	445.2	448.2	458.0	475.2	498.9	524.4	527.7	546.7	554.6
25°	516.5	525.3	510.9	505.8	510.0	527.9	557.6	589.9	593.7	609.0	612.9
27.5°	658.0	646.6	624.8	603.4	590.9	601.1	634.6	674.5	679.2	694.0	689.4
30°	813.5	803.5	774.0	726.6	696.8	695.2	726.1	770.7	776.1	790.2	776.1
32.5°	969.1	959.6	927.6	869.2	817.6	792.1	813.5	863.0	865.7	874.8	853.9
35°	1122.3	1112.5	1080.4	1020.7	957.3	899.2	895.0	950.8	951.7	961.2	930.1
37.5°	1276.3	1268.2	1234.0	1175.5	1113.0	1032.8	994.0	1034.0	1035.1	1044.4	1012.1
40°	1386.2	1389.7	1366.2	1320.9	1267.3	1179.7	1105.1	1122.5	1115.5	1131.1	1111.8
42.5°	1480.6	1487.5	1467.1	1444.3	1413.2	1336.0	1242.6	1239.6	1228.4	1236.8	1216.8
45°	1562.1	1567.9	1549.6	1544.2	1543.5	1489.4	1393.0	1374.8	1359.3	1357.6	1333.7
47.5°	1592.1	1603.2	1611.1	1629.0	1663.9	1641.1	1548.4	1520.3	1502.9	1490.1	1452.2
50°	1603.5	1615.3	1642.3	1694.3	1776.8	1786.6	1703.1	1671.5	1650.2	1626.9	1571.2
52.5°	1588.1	1609.3	1645.5	1733.1	1852.8	1903.2	1851.6	1824.0	1799.6	1761.7	1679.0
55°	1497.7	1518.9	1593.0	1732.7	1890.7	1985.0	1992.0	1979.6	1952.2	1892.5	1766.1
57.5°	1307.2	1338.6	1455.9	1673.6	1890.0	2055.4	2129.5	2138.3	2107.7	2022.2	1834.7
60°	1043.3	1085.8	1228.9	1542.8	1831.6	2093.5	2250.1	2294.2	2261.7	2150.0	1890.2
62.5°	728.0	777.2	912.7	1337.9	1698.3	2066.1	2338.2	2419.7	2395.1	2264.3	1911.6
65°	444.0	459.8	569.0	1052.8	1471.5	1951.3	2365.3	2487.6	2479.4	2334.2	1880.0
67.5°	295.8	309.0	340.4	721.9	1142.2	1722.0	2300.3	2475.7	2478.0	2322.8	1764.3
70°	178.2	189.6	210.0	419.9	740.3	1363.0	2098.8	2324.7	2338.2	2170.6	1544.9
72.5°	73.4	81.1	99.7	190.3	383.4	865.0	1671.3	1995.9	2027.3	1825.1	1185.7
75°	41.6	45.5	58.6	95.5	166.4	403.1	1012.4	1416.9	1463.1	1258.0	713.3
77.5°	27.6	29.5	37.9	61.8	93.6	137.6	432.6	738.2	826.5	687.1	308.8
80°	18.6	20.2	26.0	41.4	60.9	59.0	137.8	273.5	336.4	236.1	75.3
82.5°	12.5	12.8	18.6	27.2	38.6	28.6	40.7	85.0	106.9	68.3	28.6
85°	7.2	7.0	13.7	15.8	17.2	11.8	12.3	25.6	33.5	28.8	16.3
87.5°	0.9	1.4	5.3	4.2	2.3	2.6	2.6	4.4	6.5	7.0	3.5
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°	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1	403.1
2.5°	403.6	403.4	402.7	402.0	400.3	399.4	399.9	399.4	399.2	399.4	400.3
5°	406.6	405.9	404.1	401.7	398.5	394.5	392.0	388.3	384.8	382.7	383.1
7.5°	414.7	414.1	411.5	405.0	394.5	378.0	362.9	349.7	339.7	333.9	334.1
10°	427.8	426.6	422.6	408.2	380.8	344.8	314.8	290.0	273.7	266.0	265.3
12.5°	443.1	441.7	434.7	405.2	354.8	298.6	257.2	229.6	214.5	207.7	207.0
15°	461.2	459.4	445.7	390.8	316.9	247.5	209.6	188.9	179.1	173.1	173.3
17.5°	483.8	480.5	453.8	369.2	275.8	208.4	180.3	164.7	156.1	150.3	149.9
20°	513.0	507.7	460.3	343.4	237.9	183.8	160.6	147.5	141.0	135.9	135.0
22.5°	553.9	546.3	468.2	315.5	211.2	166.8	145.9	136.4	131.0	125.2	124.3
25°	604.6	595.5	477.9	289.7	192.9	152.2	135.2	127.3	121.1	114.3	113.6
27.5°	675.4	659.2	489.6	268.6	177.1	139.6	125.5	116.6	109.4	103.9	102.7
30°	754.4	727.7	499.8	255.8	162.6	128.0	112.7	103.9	97.1	93.2	92.5
32.5°	829.3	793.0	506.5	250.2	149.6	114.8	98.7	89.2	84.1	82.9	83.6
35°	899.9	852.0	505.8	244.9	138.0	101.5	85.0	75.3	71.3	72.0	72.0
37.5°	981.2	915.0	501.0	236.5	128.5	89.5	73.2	64.6	61.1	61.3	62.3
40°	1075.8	987.7	497.9	220.7	118.0	78.3	63.4	56.5	53.9	53.0	52.7
42.5°	1176.6	1058.1	498.4	202.8	105.0	68.3	56.7	50.9	48.6	47.9	47.6
45°	1277.9	1125.3	499.1	184.3	91.3	60.6	51.8	46.9	45.5	44.6	44.6
47.5°	1373.2	1182.4	486.1	164.3	77.8	54.8	47.9	44.6	43.4	42.3	42.3
50°	1462.0	1220.5	454.7	141.0	67.1	50.2	44.8	42.5	41.4	40.2	40.2
52.5°	1531.0	1226.6	402.9	117.1	59.7	46.7	43.0	40.9	39.5	38.3	38.1
55°	1561.6	1188.7	329.2	94.8	53.9	43.7	41.1	39.0	37.4	36.2	36.0
57.5°	1553.7	1109.0	256.7	76.2	48.3	40.7	38.8	37.4	35.5	33.7	33.5
60°	1514.9	1002.4	193.5	63.4	43.2	37.4	36.2	35.1	32.5	29.7	29.3
62.5°	1447.8	868.3	138.0	52.5	37.6	33.7	33.2	32.3	28.6	23.5	23.0
65°	1345.1	705.4	92.9	43.7	32.3	29.5	29.7	28.1	23.2	17.4	17.0
67.5°	1195.0	515.8	59.5	35.8	27.0	24.6	24.9	23.9	19.7	14.9	14.2
70°	1003.8	341.6	38.8	27.2	21.6	19.1	20.4	20.7	16.7	12.1	11.6
72.5°	735.9	201.7	27.2	20.2	15.8	13.2	16.7	17.2	13.5	9.1	8.6
75°	419.4	95.7	20.4	14.6	9.8	9.3	13.0	13.0	9.3	6.0	5.6
77.5°	176.1	40.0	14.4	9.5	5.6	5.3	8.8	8.1	4.6	2.8	2.8
80°	50.9	17.9	7.7	4.6	2.3	2.1	3.5	2.6	1.2	0.5	0.5
82.5°	20.0	7.9	3.0	1.9	0.9	0.9	0.5	0.0	0.0	0.0	0.0
85°	11.8	3.3	1.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.7	0.5	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	0.0

(END OF REPORT)