

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: P882886

Luminaire Tested: **NAV-SB3A-722-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7829 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

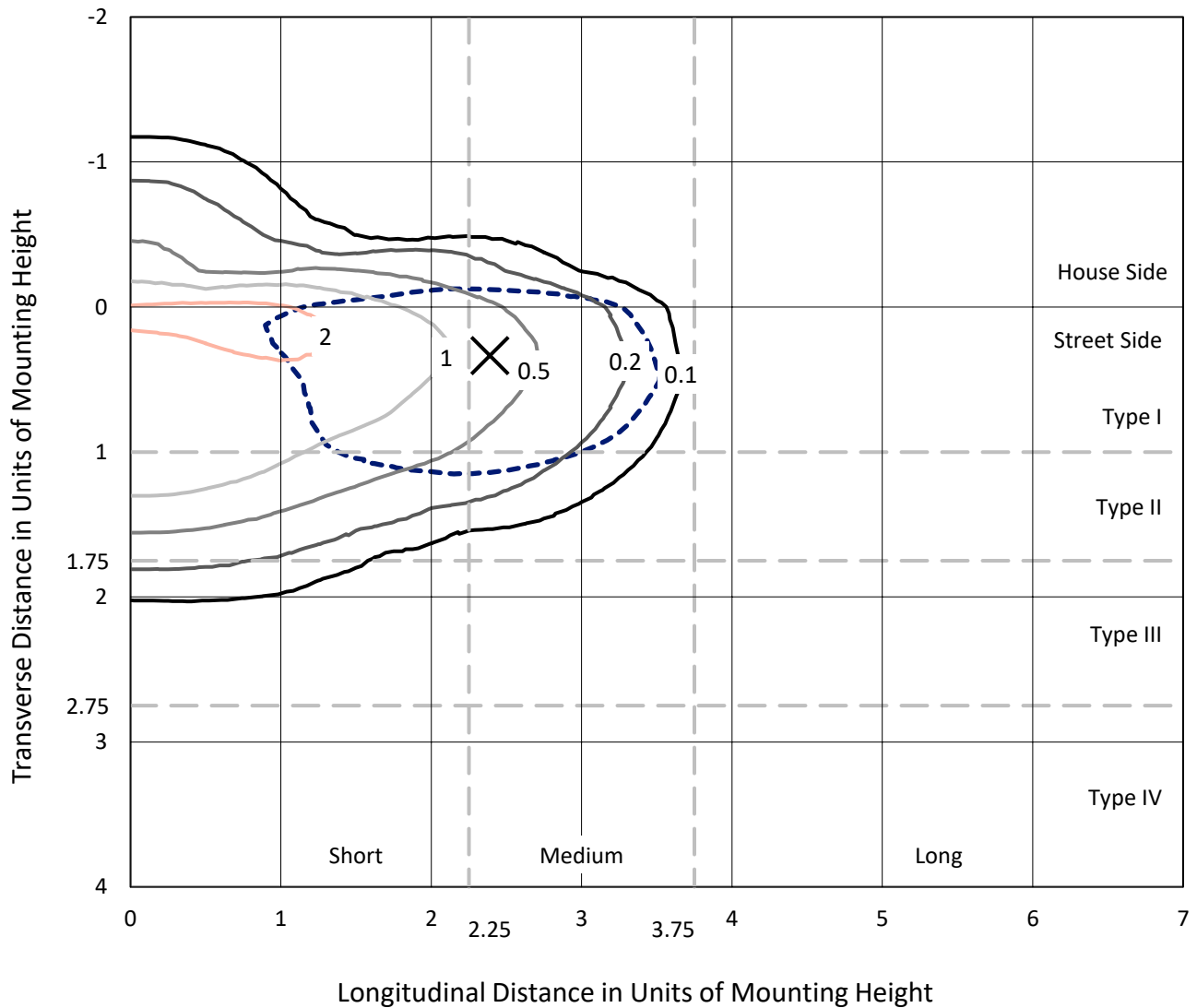
Input Watts (W): 84.7
Input Voltage (V): 120.0
Input Current (Ain): 0.717
Voltage Rise (V): NR
Power Factor: 0.99
Total Harmonic Distortion (THDi): 11.969
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

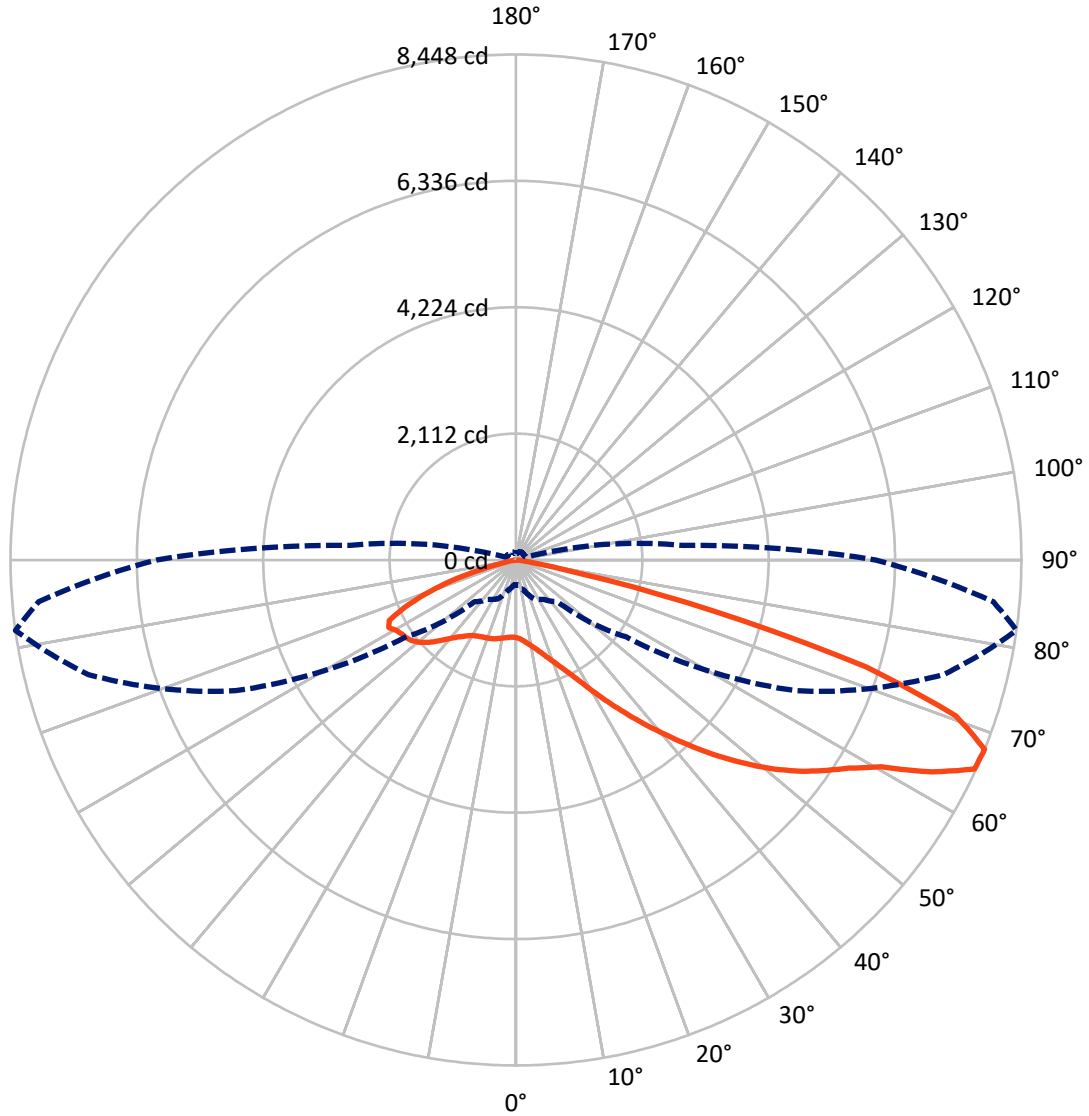
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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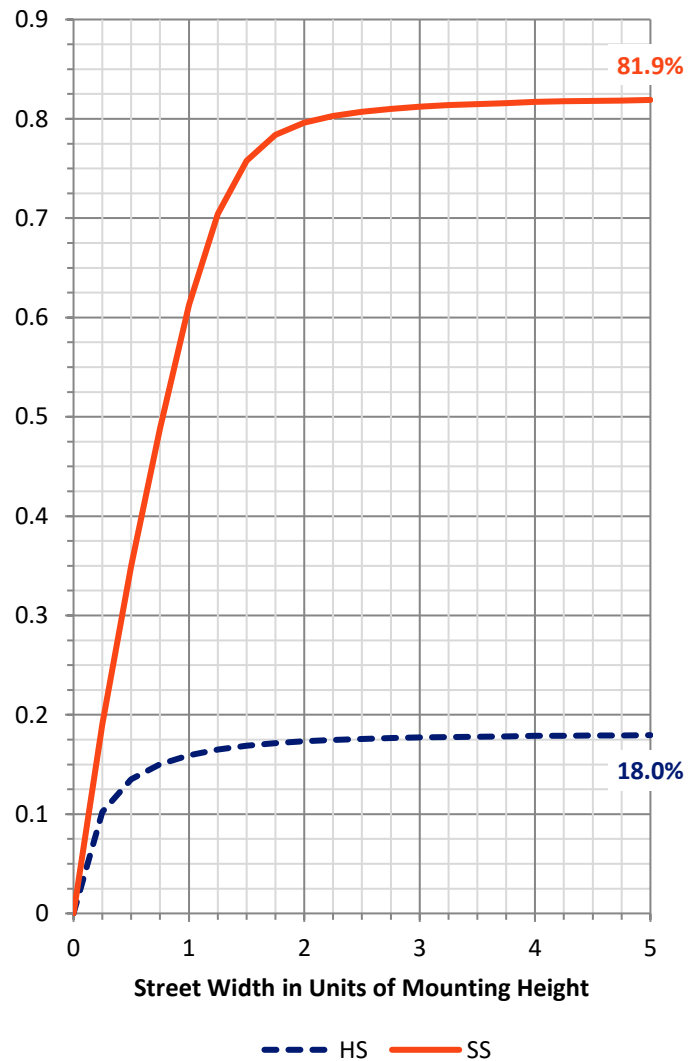
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1418.1	0.0	1418.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6410.8	0.0	6410.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	7829.0	0.0	7829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	1.5
10°-20°	300.3	3.8
20°-30°	480.9	6.1
30°-40°	850.5	10.9
40°-50°	1490.1	19.0
50°-60°	1987.4	25.4
60°-70°	1850.1	23.6
70°-80°	710.1	9.1
80°-90°	44.1	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°	7829.0	100.0
0°-180°	7829.0	100.0

Coefficient of Utilization



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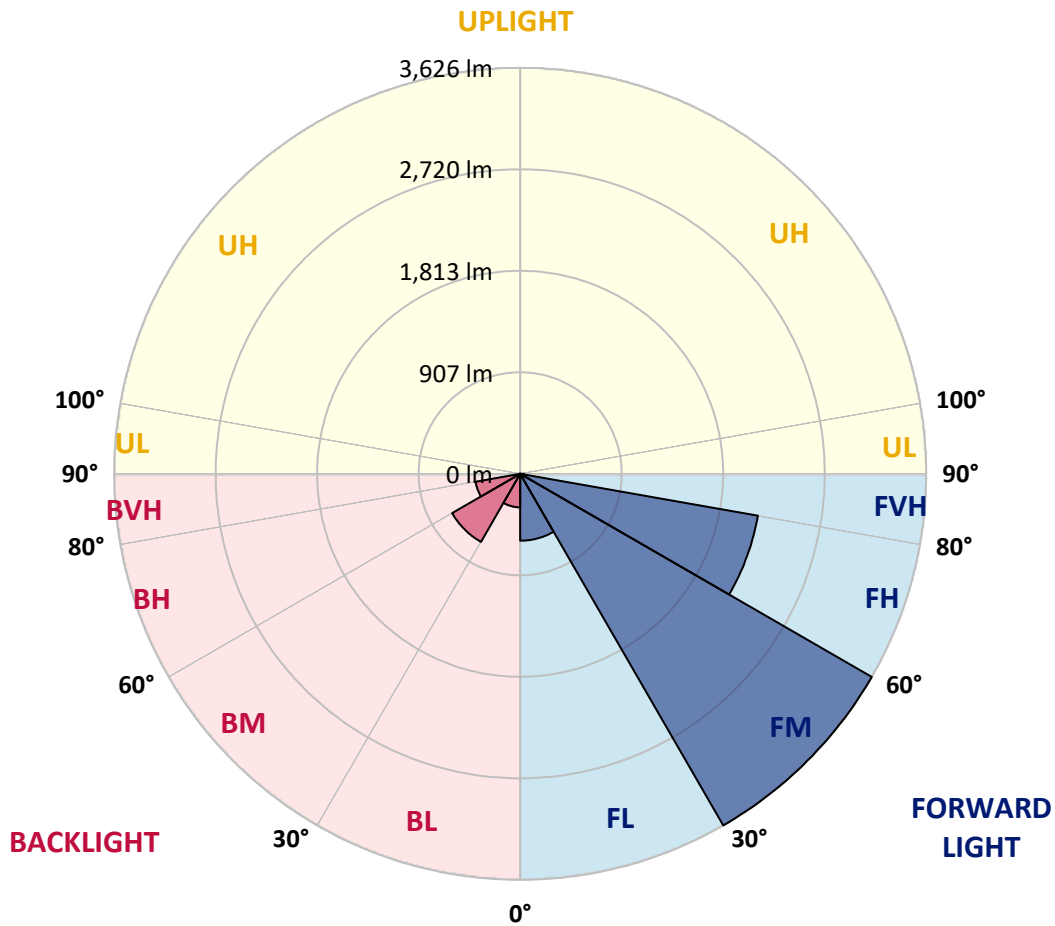
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	597.3	7.6			
FM (30°-60°)	3626.1	46.3			
FH (60°-80°)	2155.4	27.5			G2/5000
FVH (80°-90°)	32.1	0.4			G1/100
BL (0°-30°)	299.5	3.8	B1/500		
BM (30°-60°)	701.8	9.0	B1/1000		
BH (60°-80°)	404.8	5.2	B1/500		G1/500
BVH (80°-90°)	12.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
2.5°	1370.8	1378.7	1374.2	1372.0	1368.0	1362.4	1357.9	1343.8	1329.1	1319.5	1316.2
5°	1398.5	1406.4	1405.8	1408.0	1410.9	1412.6	1411.4	1395.6	1374.8	1358.4	1348.9
7.5°	1374.8	1383.8	1391.1	1402.4	1422.1	1443.0	1453.1	1449.8	1428.3	1405.8	1394.0
10°	1307.7	1317.3	1334.8	1361.3	1403.0	1448.1	1485.8	1503.3	1489.8	1465.0	1448.6
12.5°	1184.8	1194.4	1228.8	1286.3	1356.2	1434.5	1506.7	1553.5	1556.9	1532.0	1512.9
15°	1046.7	1056.3	1093.0	1165.1	1271.6	1397.3	1518.0	1606.5	1636.3	1614.9	1591.8
17.5°	961.1	969.5	997.1	1055.2	1166.2	1322.9	1514.0	1662.8	1731.0	1714.1	1686.5
20°	935.1	942.5	955.4	996.0	1088.4	1245.7	1488.1	1715.8	1833.0	1823.5	1792.5
22.5°	962.7	969.5	973.5	991.5	1049.6	1195.0	1455.4	1769.9	1951.4	1952.5	1914.8
25°	1026.4	1033.2	1028.7	1040.0	1065.3	1179.2	1443.0	1833.6	2100.2	2112.6	2069.8
27.5°	1131.3	1131.8	1121.1	1120.6	1124.5	1202.9	1456.0	1901.8	2287.9	2311.0	2258.1
30°	1341.5	1333.1	1291.9	1247.4	1227.1	1273.9	1492.0	1982.4	2509.5	2550.6	2484.1
32.5°	1665.6	1653.2	1577.7	1471.2	1364.1	1388.3	1556.9	2074.3	2750.7	2825.1	2743.9
35°	2017.4	2014.0	1935.1	1776.7	1589.5	1551.2	1662.3	2194.9	3013.9	3132.3	3035.9
37.5°	2344.3	2342.6	2297.5	2110.9	1883.2	1778.4	1831.4	2352.8	3295.8	3467.1	3353.3
40°	2643.0	2648.1	2603.0	2436.2	2206.8	2069.8	2061.3	2547.8	3609.2	3831.8	3696.5
42.5°	2901.2	2906.8	2861.2	2737.7	2526.4	2392.2	2343.7	2786.8	3915.2	4223.6	4063.5
45°	3076.5	3111.4	3104.7	3006.0	2854.4	2715.2	2683.1	3086.6	4264.1	4639.0	4451.3
47.5°	3126.1	3158.2	3209.0	3222.5	3130.0	2993.1	3031.4	3448.0	4617.0	5055.0	4841.3
50°	3003.8	3033.7	3139.1	3279.4	3343.7	3301.4	3370.2	3835.2	4978.3	5469.8	5224.1
52.5°	2762.5	2793.0	2926.0	3148.1	3410.2	3543.2	3710.1	4216.8	5328.4	5862.7	5586.5
55°	2413.6	2445.8	2616.5	2867.9	3283.4	3643.0	3993.6	4597.8	5649.1	6216.1	5913.4
57.5°	1939.0	1962.7	2140.2	2492.0	2964.3	3543.8	4202.7	5013.8	5951.2	6563.4	6237.6
60°	1263.7	1284.6	1490.9	1883.2	2435.6	3212.3	4244.4	5477.7	6352.5	7014.8	6674.4
62.5°	840.4	854.5	976.8	1264.9	1715.2	2576.0	4000.4	5848.1	6941.0	7800.6	7423.5
65°	576.6	590.7	713.0	913.7	1108.2	1704.0	3298.6	5799.0	7474.2	8424.6	7978.7
67.5°	411.5	423.3	527.0	716.4	802.1	989.8	2236.1	5172.2	7397.6	8448.3	8008.6
70°	294.8	301.6	387.2	558.0	637.5	594.7	1243.5	3955.8	6477.1	7801.2	7398.7
72.5°	206.3	208.6	268.9	425.0	513.5	434.0	591.9	2637.4	4898.8	6123.1	5735.9
75°	139.8	142.6	180.9	311.7	412.0	331.4	313.4	1414.2	2875.8	3389.3	3038.2
77.5°	85.7	86.8	116.7	213.1	308.3	252.5	201.8	599.2	1112.7	1092.4	931.2
80°	48.5	48.5	74.4	132.5	210.2	162.9	141.5	254.8	352.3	309.5	272.8
82.5°	27.1	27.6	54.1	82.3	139.2	96.4	77.8	117.8	152.2	134.7	117.2
85°	11.3	12.4	33.3	38.9	66.5	47.9	31.6	49.6	56.4	50.2	36.6
87.5°	1.1	1.7	10.1	7.3	7.9	9.6	4.5	9.6	7.9	7.9	5.6
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°	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0	1297.0
2.5°	1305.5	1297.0	1275.6	1250.8	1218.1	1202.3	1180.9	1166.2	1153.8	1155.0	1143.7
5°	1330.8	1309.4	1261.5	1201.7	1127.3	1074.4	1018.0	979.1	947.5	940.8	925.5
7.5°	1365.8	1331.9	1248.0	1140.3	1014.6	919.3	834.2	779.6	740.7	728.3	715.9
10°	1410.9	1361.8	1230.5	1063.1	882.1	761.0	669.6	626.8	600.3	591.3	584.5
12.5°	1463.3	1396.2	1207.4	968.9	745.7	629.1	571.0	549.6	541.1	538.3	536.6
15°	1529.2	1439.0	1172.4	857.3	630.2	548.4	523.6	520.8	522.0	520.8	520.3
17.5°	1607.6	1485.8	1115.5	742.4	552.4	507.3	498.3	500.5	503.4	502.8	501.7
20°	1693.3	1532.0	1042.8	640.3	499.4	478.0	472.9	475.2	477.4	476.3	475.7
22.5°	1790.8	1581.7	962.2	560.8	463.9	450.9	445.3	445.9	445.9	443.6	442.5
25°	1907.5	1636.3	877.6	504.5	436.8	426.7	419.9	417.7	414.3	407.5	406.4
27.5°	2046.7	1694.4	796.5	465.0	415.4	405.8	397.9	392.3	383.9	372.6	371.5
30°	2203.4	1764.8	727.7	440.2	398.5	388.9	379.9	371.5	359.1	345.0	343.8
32.5°	2387.7	1840.4	677.5	423.9	383.3	373.1	362.4	352.3	338.8	324.7	325.2
35°	2607.5	1931.7	648.2	412.6	371.5	357.9	346.1	334.8	324.7	312.3	311.1
37.5°	2846.0	2028.6	639.2	407.0	363.6	342.7	329.2	321.3	320.2	312.8	312.3
40°	3106.9	2143.6	646.0	403.6	355.1	328.1	313.4	311.7	314.5	301.6	302.1
42.5°	3383.1	2280.0	657.2	399.6	343.3	313.4	299.3	299.3	297.1	279.0	279.0
45°	3681.9	2437.3	668.5	390.1	329.2	298.7	288.0	284.1	274.5	257.0	256.5
47.5°	3982.9	2597.4	677.0	372.6	312.3	286.3	276.8	267.7	253.7	237.9	237.3
50°	4268.7	2741.1	667.9	346.7	293.1	274.5	264.4	252.0	236.7	226.0	224.3
52.5°	4524.0	2865.7	629.6	316.2	272.8	262.1	253.1	240.1	227.7	216.4	215.3
55°	4746.1	2966.6	562.0	287.5	254.8	251.4	242.4	226.0	209.1	199.5	198.4
57.5°	4959.2	3043.2	477.4	263.8	238.4	239.6	226.0	211.4	195.6	185.4	184.3
60°	5242.7	3145.8	391.7	241.8	221.0	224.3	209.7	199.0	179.2	166.3	164.6
62.5°	5695.9	3305.3	311.1	214.8	200.7	201.8	195.6	182.6	159.0	143.7	142.6
65°	6055.5	3246.7	245.2	185.4	177.6	179.2	179.2	165.2	139.8	122.3	120.6
67.5°	6014.9	2780.0	195.6	156.7	155.6	156.7	160.6	148.8	124.0	109.9	107.7
70°	5540.9	2211.3	156.7	130.2	135.3	132.5	143.7	135.8	111.6	97.5	95.8
72.5°	4521.2	1592.9	119.5	107.7	103.7	108.2	129.6	122.3	93.0	77.2	75.5
75°	2641.9	850.0	89.1	85.1	75.0	90.2	115.0	104.3	71.0	56.9	55.2
77.5°	860.2	296.5	65.4	62.6	55.8	72.7	98.1	87.9	58.1	45.1	43.4
80°	230.5	89.6	44.5	41.1	36.1	54.1	77.8	69.9	41.7	29.3	28.7
82.5°	92.4	37.8	25.9	23.1	19.7	37.2	61.4	56.4	31.0	18.6	18.6
85°	29.9	12.4	9.6	7.3	9.0	23.1	36.6	38.3	22.0	9.6	7.3
87.5°	3.9	1.7	1.7	2.3	1.7	3.9	11.3	10.7	6.2	1.1	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)