

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: P960311

Luminaire Tested: **NAV-SB1C-730-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-730-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6183.8 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

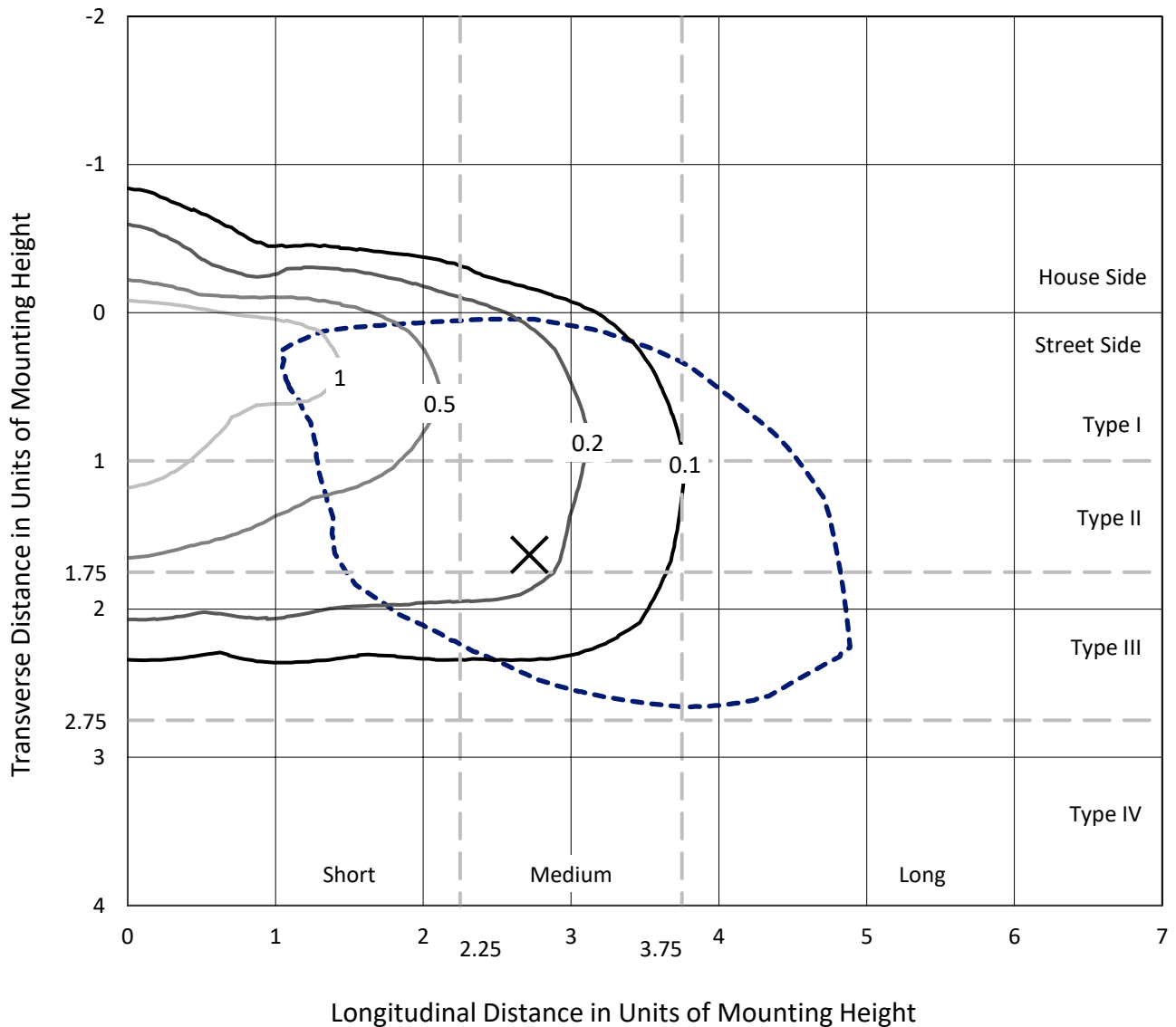
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

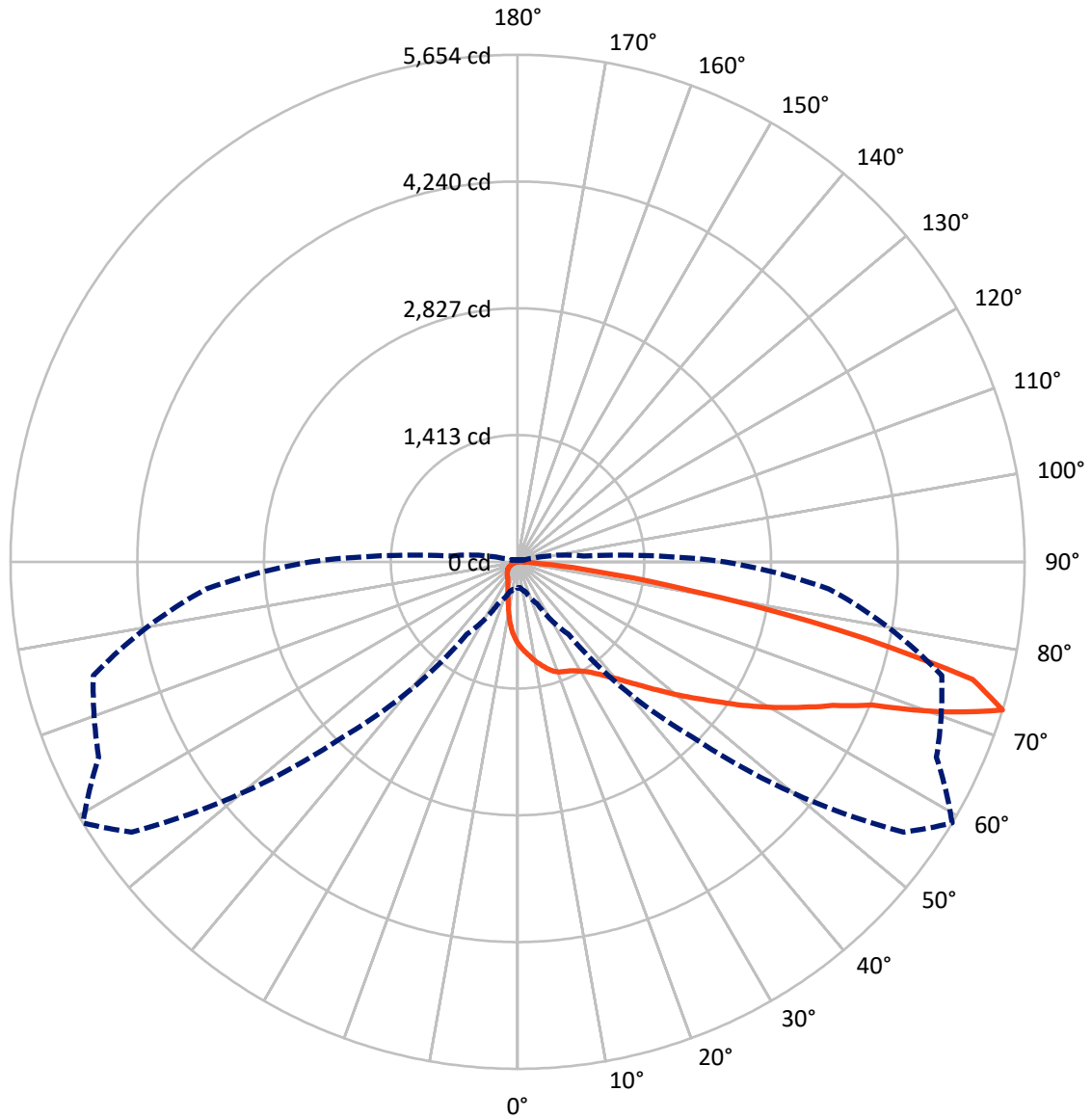
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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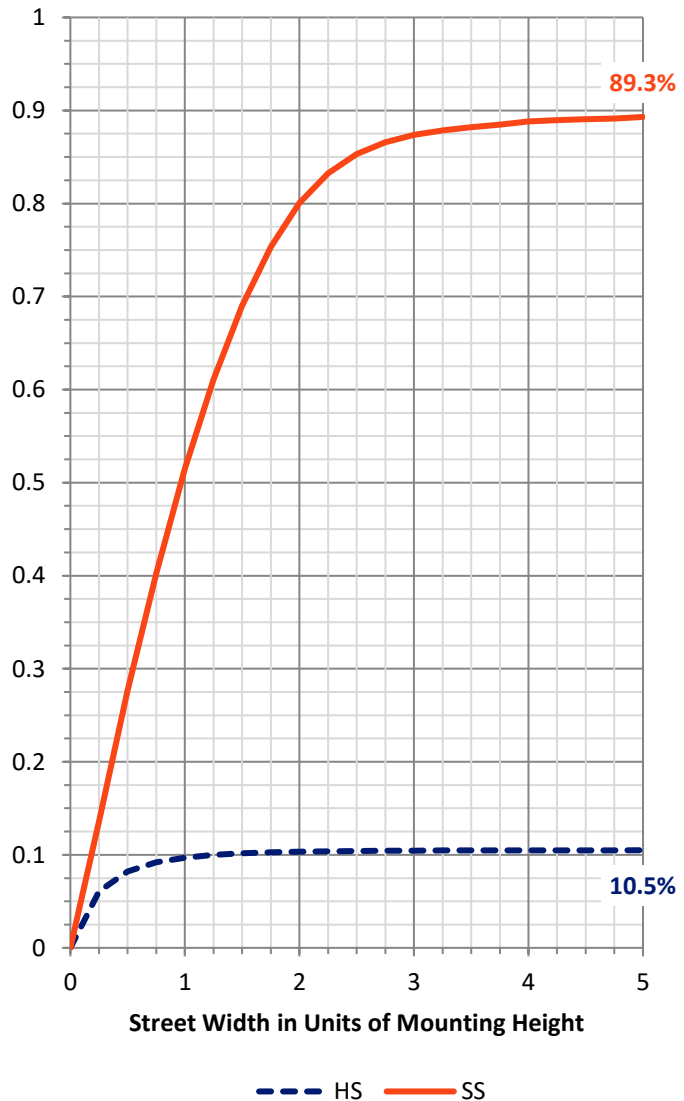
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	653.1	0.0	653.1
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	5530.7	0.0	5530.7
	% Fixture	89.4	0.0	89.4
Total	Lumens	6183.8	0.0	6183.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	1.3
10°-20°	219.8	3.6
20°-30°	348.3	5.6
30°-40°	558.9	9.0
40°-50°	892.7	14.4
50°-60°	1292.5	20.9
60°-70°	1533.9	24.8
70°-80°	1138.7	18.4
80°-90°	116.4	1.9
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°	6183.8	100.0
0°-180°	6183.8	100.0

Coefficient of Utilization

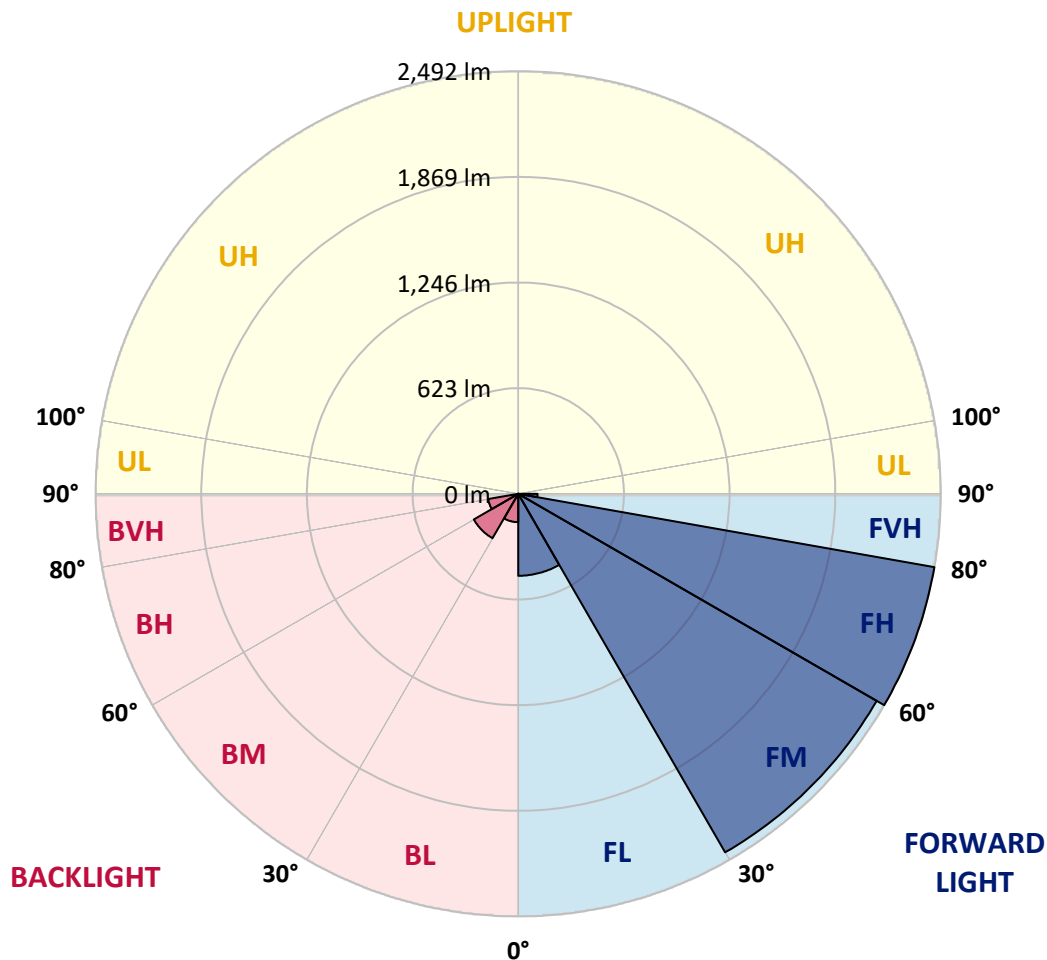


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.4	7.8			
FM (30°-60°)	2441.3	39.5			
FH (60°-80°)	2492.4	40.3			G2/5000
FVH (80°-90°)	113.5	1.8			G2/225
BL (0°-30°)	167.3	2.7	B1/500		
BM (30°-60°)	302.8	4.9	B1/1000		
BH (60°-80°)	180.1	2.9	B1/500		G1/500
BVH (80°-90°)	2.9	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-G2
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4
2.5°	1014.5	1008.9	1009.7	1000.0	993.1	985.9	971.8	969.8	959.7	941.9	923.7
5°	1103.0	1099.3	1096.1	1085.2	1071.1	1053.3	1029.5	1021.0	1002.4	971.8	936.2
7.5°	1167.6	1163.2	1164.7	1153.8	1142.6	1122.8	1090.1	1074.3	1049.7	1002.9	949.1
10°	1180.1	1177.6	1188.2	1192.2	1192.2	1179.7	1147.8	1132.0	1096.1	1036.4	962.5
12.5°	1109.9	1110.3	1136.5	1168.0	1209.2	1220.9	1199.5	1182.5	1147.0	1071.8	979.5
15°	1027.9	1028.3	1053.7	1094.1	1161.5	1229.0	1245.9	1235.0	1198.2	1110.3	999.3
17.5°	978.7	976.6	993.5	1026.6	1097.4	1192.2	1274.2	1281.5	1251.5	1152.6	1021.0
20°	971.8	968.1	977.0	993.5	1044.1	1146.2	1277.4	1311.7	1306.5	1200.7	1046.0
22.5°	1013.7	1008.1	1003.3	1004.1	1025.5	1107.8	1269.4	1328.7	1362.9	1258.4	1080.4
25°	1097.0	1088.0	1072.3	1052.1	1047.7	1099.7	1263.6	1347.3	1415.4	1332.3	1125.6
27.5°	1198.6	1186.1	1155.9	1125.6	1099.7	1122.4	1275.4	1376.7	1474.8	1418.3	1178.0
30°	1310.5	1295.2	1264.8	1207.6	1166.3	1172.8	1303.2	1415.4	1550.7	1515.6	1243.8
32.5°	1474.8	1439.3	1386.4	1298.8	1244.2	1227.3	1345.2	1464.7	1644.8	1645.2	1339.2
35°	1615.7	1595.9	1542.6	1433.7	1321.8	1299.6	1400.6	1534.1	1775.2	1816.8	1472.4
37.5°	1708.2	1681.1	1634.3	1552.4	1442.1	1373.9	1474.4	1619.4	1913.3	2012.2	1636.7
40°	1811.5	1784.8	1722.7	1645.6	1581.8	1501.4	1567.6	1717.5	2064.7	2212.9	1824.4
42.5°	1936.2	1901.6	1828.1	1744.9	1678.3	1669.4	1689.6	1839.8	2220.0	2430.8	2019.9
45°	2082.8	2050.1	1965.7	1860.8	1802.3	1786.5	1843.1	1982.2	2393.3	2669.8	2217.3
47.5°	2220.0	2182.1	2091.3	1995.6	1930.6	1881.0	2006.1	2150.7	2589.5	2919.7	2403.8
50°	2336.8	2298.0	2214.8	2112.7	2068.7	2003.7	2166.4	2338.3	2784.1	3173.7	2574.2
52.5°	2416.7	2382.4	2284.7	2215.2	2185.4	2152.7	2354.1	2537.4	2977.9	3406.3	2742.5
55°	2398.5	2367.9	2281.9	2277.0	2275.0	2309.3	2578.6	2763.1	3175.3	3626.2	2910.1
57.5°	2340.8	2306.0	2198.7	2272.5	2344.1	2449.0	2821.6	3030.0	3391.7	3833.8	3071.5
60°	2170.8	2158.8	2093.4	2264.1	2373.1	2585.9	3099.4	3298.0	3625.8	4016.3	3214.9
62.5°	1811.1	1821.6	1821.2	2281.9	2425.6	2741.7	3351.7	3569.4	3854.8	4191.9	3342.4
65°	1356.1	1392.5	1438.9	2122.0	2495.9	3019.9	3653.3	3863.6	4087.3	4396.2	3472.1
67.5°	911.2	940.2	971.8	1740.9	2286.7	3312.2	4154.3	4267.0	4365.9	4622.6	3617.8
70°	521.6	530.9	574.9	1087.2	1762.7	3231.4	4970.3	5011.0	4781.3	4901.7	3723.9
72.5°	292.3	289.0	347.2	516.0	985.1	2767.1	5256.1	5653.8	5153.2	4897.2	3486.9
75°	195.4	195.8	239.0	325.4	384.0	1937.0	4529.4	5242.4	4930.4	4342.5	2849.1
77.5°	133.2	137.7	175.6	251.5	177.6	945.2	2996.5	3672.3	3991.7	3353.4	1967.0
80°	57.7	58.1	115.8	180.5	119.9	300.7	1553.5	1967.4	2503.5	1883.0	779.2
82.5°	29.8	33.9	73.9	116.6	75.5	105.4	734.0	859.6	1050.5	552.7	159.9
85°	10.5	12.5	45.6	57.3	37.9	37.5	255.5	260.5	222.4	83.1	44.0
87.5°	0.0	2.0	17.7	14.1	4.8	4.4	30.2	25.4	20.2	11.7	14.6
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°	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4	914.4
2.5°	915.2	904.4	886.6	864.8	839.4	825.6	805.9	793.8	782.8	783.2	792.1
5°	916.5	898.3	853.1	805.0	751.7	712.6	669.0	638.3	614.9	609.3	617.7
7.5°	920.1	889.4	815.5	735.5	646.8	581.0	520.8	482.9	461.5	455.8	461.5
10°	925.0	879.8	773.2	650.8	540.6	461.5	411.4	387.1	377.5	370.2	374.6
12.5°	929.0	869.6	719.9	563.2	446.1	384.4	346.3	326.3	317.8	312.5	315.3
15°	935.8	856.3	662.2	481.6	382.3	331.9	295.9	281.0	278.6	279.4	280.5
17.5°	942.7	843.4	597.5	417.9	335.5	285.9	264.0	261.6	264.9	268.0	269.3
20°	950.4	824.8	532.1	369.8	292.3	254.0	248.3	249.9	251.5	257.2	258.8
22.5°	961.7	801.4	474.8	329.0	256.4	238.6	235.7	237.0	238.2	243.8	245.5
25°	977.8	776.3	428.3	291.5	233.8	226.1	223.2	223.2	224.9	230.1	232.2
27.5°	994.8	740.9	390.8	256.8	220.5	212.4	207.6	207.6	209.5	215.6	218.0
30°	1013.7	708.6	361.3	230.9	209.1	198.6	192.2	190.5	193.0	200.7	202.6
32.5°	1048.1	687.6	340.3	218.8	199.1	186.1	177.2	172.8	175.2	184.1	186.5
35°	1100.1	682.8	325.8	212.8	189.3	174.8	162.3	155.4	157.4	166.8	169.5
37.5°	1161.1	692.8	311.7	204.7	180.1	163.9	147.4	138.5	141.8	150.2	152.6
40°	1248.8	734.8	300.7	198.6	170.8	151.0	132.4	123.5	128.7	136.0	137.2
42.5°	1354.5	809.4	298.0	193.0	159.5	137.2	118.7	112.2	116.2	123.1	124.3
45°	1485.7	904.8	310.9	185.7	147.0	123.9	107.8	104.1	105.4	112.2	115.4
47.5°	1626.6	1002.4	346.3	179.3	136.0	113.1	99.3	96.0	95.3	101.8	105.8
50°	1769.2	1089.3	388.4	174.5	128.4	104.1	92.9	88.9	86.8	90.8	92.5
52.5°	1910.0	1158.2	415.8	166.4	120.7	95.3	87.2	81.2	77.5	79.5	81.2
55°	2053.0	1218.8	417.5	154.3	113.5	89.6	81.6	74.7	70.2	70.2	71.0
57.5°	2186.6	1272.1	393.6	138.1	103.3	84.4	73.9	68.3	63.3	61.8	62.2
60°	2304.9	1311.7	354.0	119.9	94.5	77.5	66.2	61.8	55.8	52.5	51.7
62.5°	2410.3	1331.1	300.0	101.4	83.5	69.4	58.9	54.1	46.0	42.0	41.6
65°	2499.5	1311.3	243.4	83.9	74.3	60.6	50.4	45.6	36.7	31.9	31.9
67.5°	2587.9	1220.9	184.1	70.6	64.6	50.8	41.6	37.1	30.6	26.6	26.6
70°	2599.2	1030.7	128.7	59.3	53.7	39.2	33.5	30.6	25.0	21.4	21.0
72.5°	2313.7	741.7	78.3	48.5	42.0	27.9	26.6	24.2	18.6	16.2	15.8
75°	1849.5	454.6	46.0	36.3	27.9	19.8	19.8	17.3	12.5	10.5	10.5
77.5°	1278.2	237.8	27.1	23.4	16.5	11.7	12.9	10.5	6.0	4.8	4.8
80°	511.9	90.4	14.6	10.9	7.7	5.2	4.4	2.5	1.2	0.8	1.2
82.5°	102.2	23.8	4.8	2.9	2.9	1.2	0.0	0.0	0.0	0.0	0.0
85°	26.2	5.2	1.2	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	0.0	0.0	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)