

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: P459875

Luminaire Tested: **NAV-SA6A-AMB-U-SL2**

Issue Date: 1/6/2021

Test Information

Test Method: LM-79-08
Report Number: P459875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2003-697-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SA6A-AMB-U-SL2
Description: NAVION AREA AND ROADWAY LUMINAIRE
(6) NARROW BAND AMBER, 500mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6161 lumens
Efficiency: N/A
Efficacy: 51.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

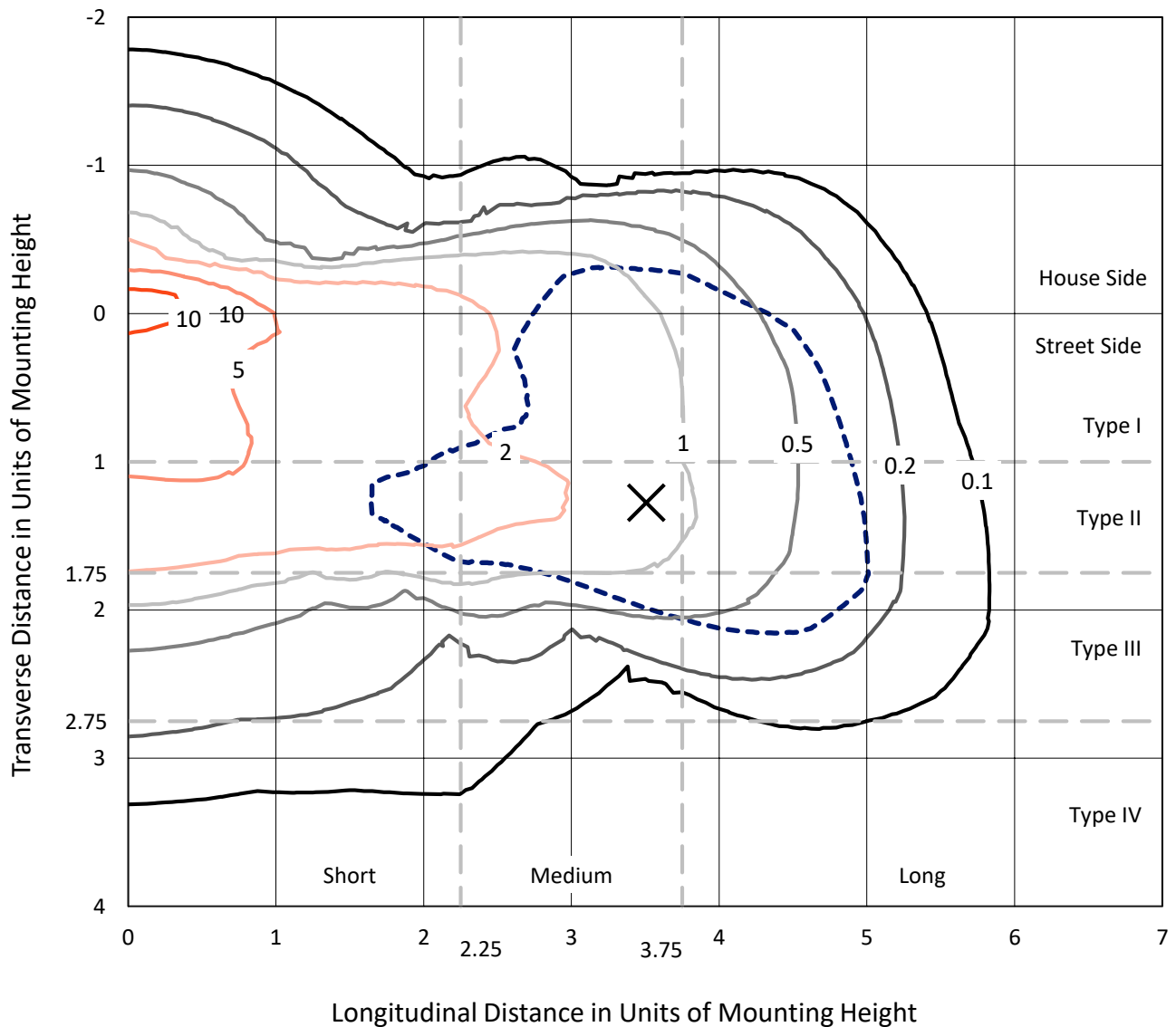
Input Watts (W): 119
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

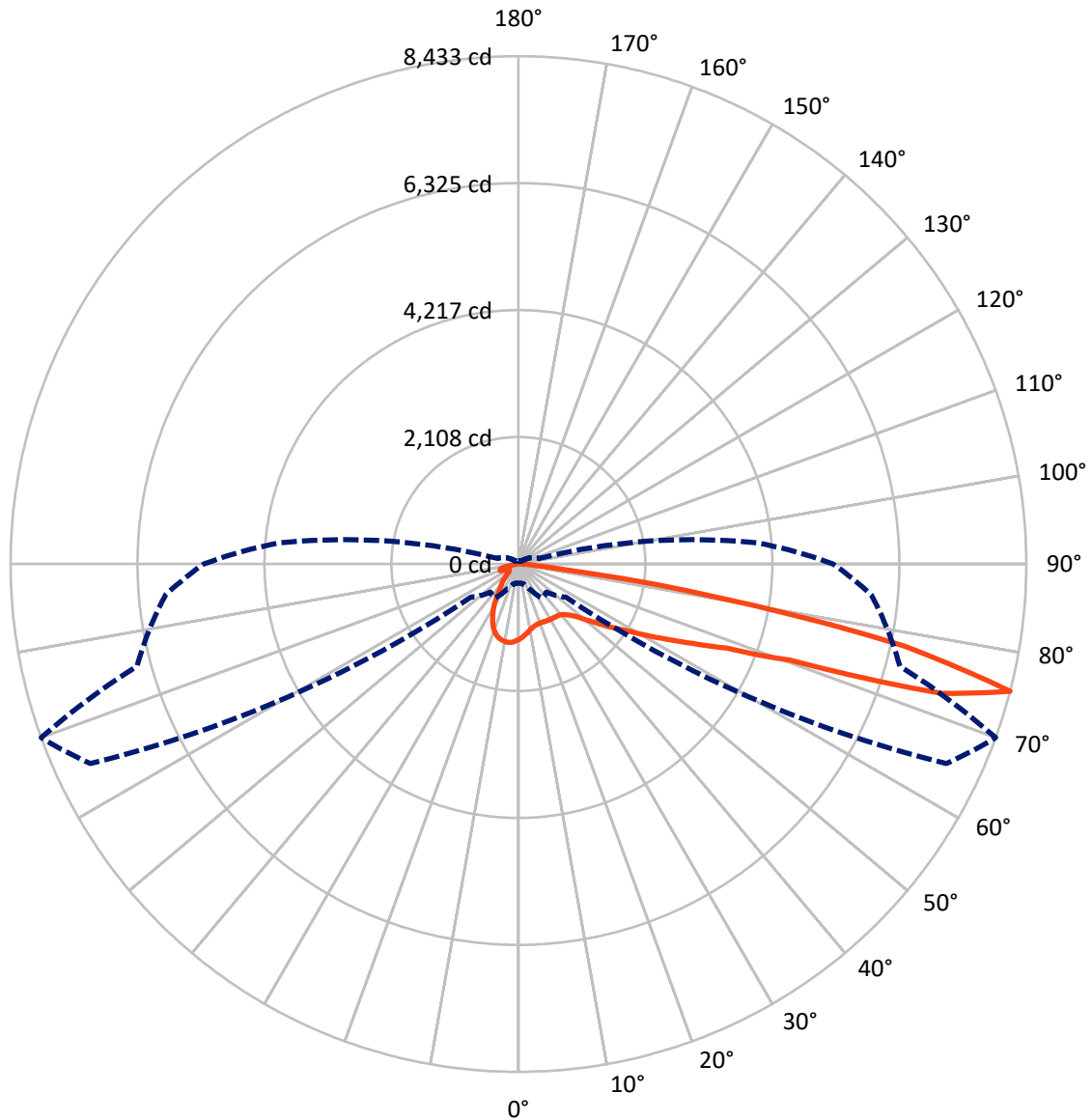


Based on 10 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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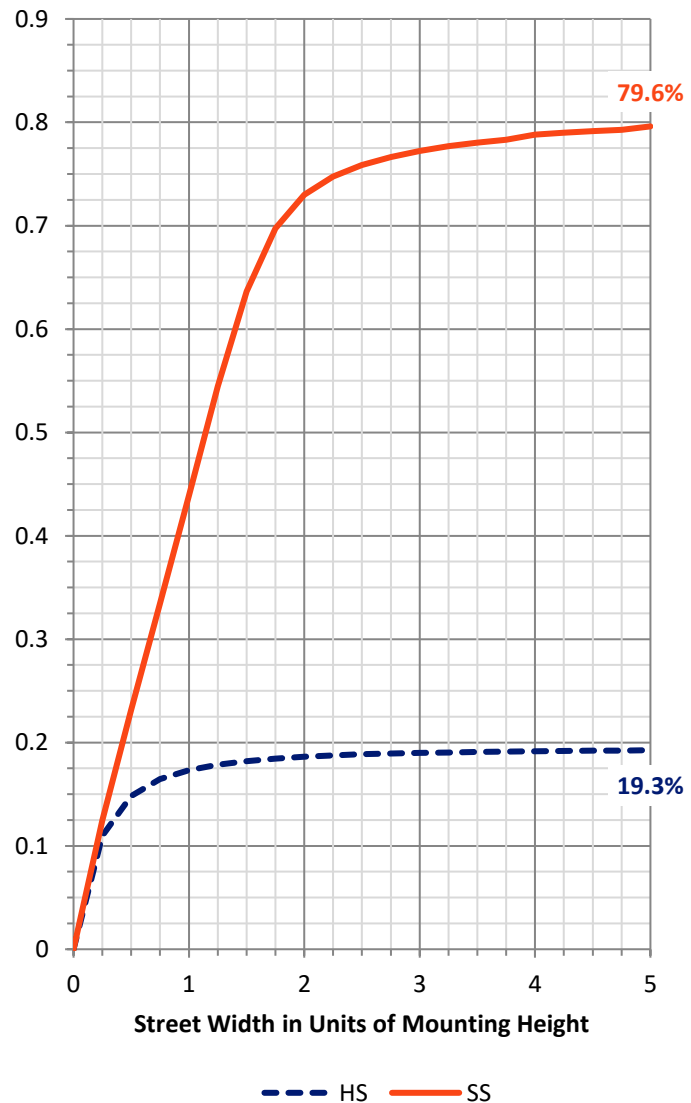
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1202.2	0.0	1202.2
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	4958.8	0.0	4958.8
	% Fixture	80.5	0.0	80.5
Total	Lumens	6161.0	0.0	6161.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	1.8
10°-20°	275.7	4.5
20°-30°	370.8	6.0
30°-40°	487.7	7.9
40°-50°	695.7	11.3
50°-60°	1083.8	17.6
60°-70°	1414.9	23.0
70°-80°	1503.6	24.4
80°-90°	215.3	3.5
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°	6161.0	100.0
0°-180°	6161.0	100.0

Coefficient of Utilization



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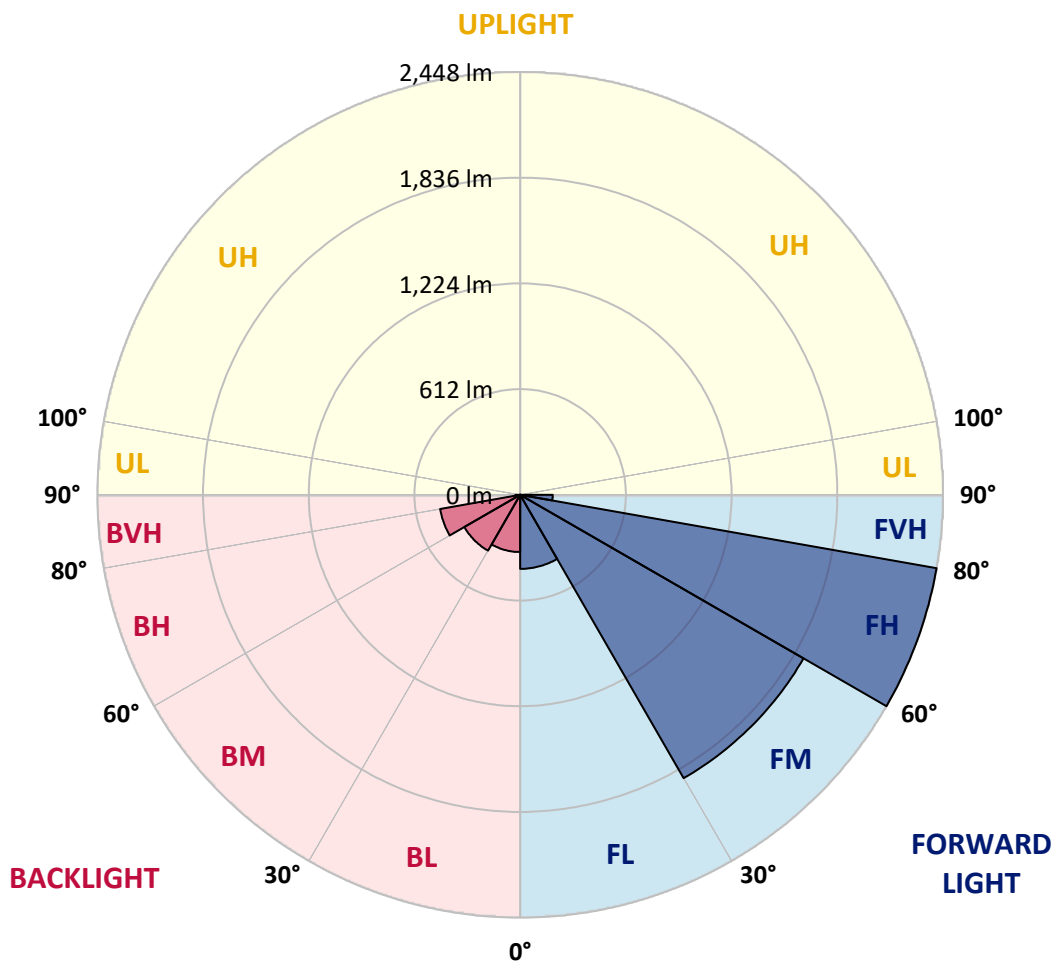
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.7	7.0			
FM	(30°-60°)	1894.1	30.7			
FH	(60°-80°)	2447.9	39.7			G2/5000
FVH	(80°-90°)	188.2	3.1			G2/225
BL	(0°-30°)	331.3	5.4	B1/500		
BM	(30°-60°)	373.2	6.1	B1/1000		
BH	(60°-80°)	470.6	7.6	B1/500		G1/500
BVH	(80°-90°)	27.1	0.4			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4
2.5°	1174.2	1174.2	1182.1	1182.1	1192.7	1195.3	1205.9	1211.1	1216.4	1224.3	1240.2
5°	1089.8	1087.1	1095.0	1108.2	1121.4	1134.6	1153.1	1171.6	1179.5	1192.7	1219.1
7.5°	1026.4	1026.4	1031.7	1039.6	1058.1	1073.9	1103.0	1124.1	1142.5	1161.0	1197.9
10°	978.9	978.9	984.2	992.1	1010.6	1023.8	1050.2	1087.1	1103.0	1129.3	1176.8
12.5°	934.1	939.4	942.0	952.6	965.7	984.2	1010.6	1050.2	1076.6	1108.2	1171.6
15°	913.0	913.0	915.6	923.5	936.7	955.2	986.9	1029.1	1058.1	1095.0	1174.2
17.5°	907.7	905.1	902.4	905.1	918.3	936.7	968.4	1015.9	1047.5	1089.8	1187.4
20°	910.3	907.7	905.1	899.8	905.1	923.5	963.1	1010.6	1042.3	1087.1	1208.5
22.5°	923.5	923.5	918.3	907.7	905.1	918.3	960.5	1010.6	1044.9	1089.8	1229.6
25°	960.5	957.8	952.6	931.4	915.6	920.9	960.5	1015.9	1050.2	1095.0	1248.1
27.5°	1000.0	1000.0	994.8	976.3	944.6	931.4	965.7	1023.8	1058.1	1100.3	1269.2
30°	1063.4	1060.7	1055.5	1034.4	994.8	952.6	976.3	1031.7	1063.4	1103.0	1287.7
32.5°	1139.9	1139.9	1142.5	1116.1	1058.1	989.5	986.9	1037.0	1066.0	1105.6	1308.8
35°	1229.6	1232.3	1240.2	1219.1	1147.8	1044.9	1013.2	1050.2	1071.3	1108.2	1329.9
37.5°	1295.6	1298.2	1327.2	1332.5	1248.1	1118.8	1055.5	1076.6	1081.8	1113.5	1351.0
40°	1372.1	1372.1	1414.3	1446.0	1390.6	1221.7	1113.5	1108.2	1105.6	1134.6	1377.4
42.5°	1456.5	1467.1	1504.0	1556.8	1533.1	1340.4	1195.3	1163.6	1150.5	1171.6	1419.6
45°	1535.7	1541.0	1609.6	1670.3	1672.9	1501.4	1311.4	1250.7	1213.8	1237.5	1496.1
47.5°	1622.8	1630.7	1715.1	1812.8	1831.2	1672.9	1443.3	1358.9	1311.4	1335.2	1606.9
50°	1749.4	1762.6	1833.9	1952.6	2002.7	1876.1	1612.2	1509.3	1456.5	1467.1	1762.6
52.5°	1952.6	1950.0	1984.3	2100.4	2221.7	2100.4	1839.1	1694.0	1622.8	1638.6	1963.2
55°	2074.0	2071.3	2118.8	2245.5	2467.1	2382.7	2089.8	1913.0	1847.1	1839.1	2195.4
57.5°	1965.8	1971.1	2052.9	2250.8	2633.4	2823.4	2364.2	2179.5	2066.1	2079.3	2477.7
60°	1643.9	1612.2	1704.6	1973.7	2583.2	3316.8	2754.8	2501.4	2382.7	2359.0	2833.9
62.5°	1108.2	1118.8	1179.5	1353.6	2211.2	3451.4	3752.2	2902.5	2738.9	2696.7	3169.0
65°	833.8	831.2	833.8	862.8	1197.9	3324.7	4783.9	3435.5	3179.6	3039.7	3522.6
67.5°	696.6	688.7	686.0	752.0	746.7	2092.5	5126.9	4646.7	3720.5	3425.0	3865.6
70°	591.1	575.2	569.9	675.5	694.0	741.5	5087.3	6900.1	4778.6	3963.3	4319.5
72.5°	448.6	445.9	456.5	575.2	683.4	649.1	3063.5	7886.9	7348.6	5002.9	5256.2
75°	319.3	316.6	345.7	467.0	694.0	659.7	957.8	7839.4	8433.1	6557.0	5881.6
77.5°	211.1	208.5	234.8	335.1	651.7	662.3	625.4	5675.7	6557.0	6142.8	4820.8
80°	139.8	134.6	153.0	232.2	522.5	709.8	612.2	2810.2	3343.2	2844.5	1601.7
82.5°	81.8	79.2	97.6	161.0	343.0	701.9	617.4	883.9	723.0	369.4	200.5
85°	42.2	44.9	63.3	97.6	221.6	620.1	659.7	453.8	211.1	150.4	100.3
87.5°	13.2	18.5	34.3	52.8	124.0	427.5	585.8	350.9	153.0	97.6	55.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4	1253.4
2.5°	1245.4	1253.4	1269.2	1287.7	1306.1	1314.0	1324.6	1327.2	1332.5	1335.2	1332.5
5°	1237.5	1256.0	1290.3	1314.0	1329.9	1327.2	1324.6	1316.7	1314.0	1311.4	1306.1
7.5°	1221.7	1253.4	1303.5	1324.6	1314.0	1282.4	1256.0	1224.3	1213.8	1200.6	1197.9
10°	1213.8	1258.6	1308.8	1306.1	1263.9	1203.2	1150.5	1100.3	1066.0	1044.9	1034.4
12.5°	1221.7	1277.1	1319.3	1271.8	1197.9	1105.6	1013.2	936.7	860.2	833.8	820.6
15°	1245.4	1306.1	1319.3	1227.0	1113.5	981.6	841.7	720.4	630.6	585.8	577.9
17.5°	1274.5	1329.9	1300.9	1171.6	1015.9	825.9	659.7	504.0	435.4	416.9	414.3
20°	1308.8	1358.9	1271.8	1103.0	889.2	664.9	448.6	369.4	361.5	364.1	366.8
22.5°	1337.8	1372.1	1224.3	1010.6	738.8	445.9	314.0	298.2	314.0	335.1	340.4
25°	1358.9	1364.2	1171.6	894.5	567.3	285.0	248.0	245.4	269.1	306.1	316.6
27.5°	1372.1	1337.8	1100.3	770.5	348.3	221.6	203.2	211.1	229.6	255.9	261.2
30°	1380.0	1311.4	1031.7	641.2	221.6	187.3	184.7	190.0	197.9	211.1	213.7
32.5°	1382.7	1285.0	957.8	477.6	187.3	171.5	171.5	176.8	179.4	187.3	187.3
35°	1377.4	1253.4	883.9	300.8	171.5	166.2	163.6	163.6	163.6	166.2	166.2
37.5°	1364.2	1221.7	796.9	200.5	163.6	158.3	155.7	155.7	153.0	153.0	153.0
40°	1356.3	1195.3	715.1	174.2	155.7	153.0	150.4	145.1	142.5	142.5	142.5
42.5°	1364.2	1182.1	614.8	166.2	150.4	147.8	142.5	137.2	137.2	137.2	137.2
45°	1398.5	1184.8	488.2	161.0	147.8	142.5	134.6	129.3	129.3	131.9	131.9
47.5°	1464.5	1208.5	377.3	155.7	142.5	137.2	126.7	124.0	124.0	124.0	124.0
50°	1564.7	1256.0	298.2	150.4	139.8	131.9	124.0	118.7	118.7	118.7	116.1
52.5°	1707.2	1343.1	234.8	147.8	137.2	129.3	118.7	113.5	110.8	110.8	108.2
55°	1905.1	1480.3	216.4	147.8	131.9	124.0	113.5	105.5	102.9	100.3	100.3
57.5°	2169.0	1675.5	213.7	145.1	124.0	116.1	105.5	97.6	95.0	95.0	92.4
60°	2490.9	1936.8	216.4	139.8	118.7	108.2	97.6	92.4	87.1	87.1	87.1
62.5°	2852.4	2221.7	216.4	137.2	116.1	102.9	92.4	84.4	81.8	79.2	79.2
65°	3219.2	2570.0	232.2	134.6	110.8	92.4	84.4	79.2	73.9	73.9	73.9
67.5°	3622.9	2994.9	316.6	134.6	105.5	84.4	76.5	71.2	68.6	68.6	68.6
70°	4145.3	3696.8	480.2	168.9	108.2	79.2	68.6	66.0	63.3	63.3	63.3
72.5°	5219.3	4506.8	382.6	234.8	126.7	71.2	60.7	58.1	58.1	55.4	55.4
75°	5224.5	3997.6	364.1	250.7	137.2	66.0	55.4	52.8	50.1	50.1	50.1
77.5°	3863.0	2609.6	311.4	195.3	118.7	58.1	50.1	47.5	44.9	44.9	44.9
80°	1139.9	672.9	195.3	142.5	76.5	47.5	42.2	39.6	36.9	36.9	36.9
82.5°	195.3	176.8	89.7	76.5	47.5	36.9	34.3	31.7	29.0	29.0	29.0
85°	95.0	92.4	50.1	42.2	31.7	26.4	26.4	23.7	21.1	21.1	21.1
87.5°	58.1	52.8	36.9	23.7	18.5	13.2	15.8	13.2	13.2	10.6	10.6
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)