

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: P881954

Luminaire Tested: **NAV-SB1C-835-U-SL4**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-835-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6269 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

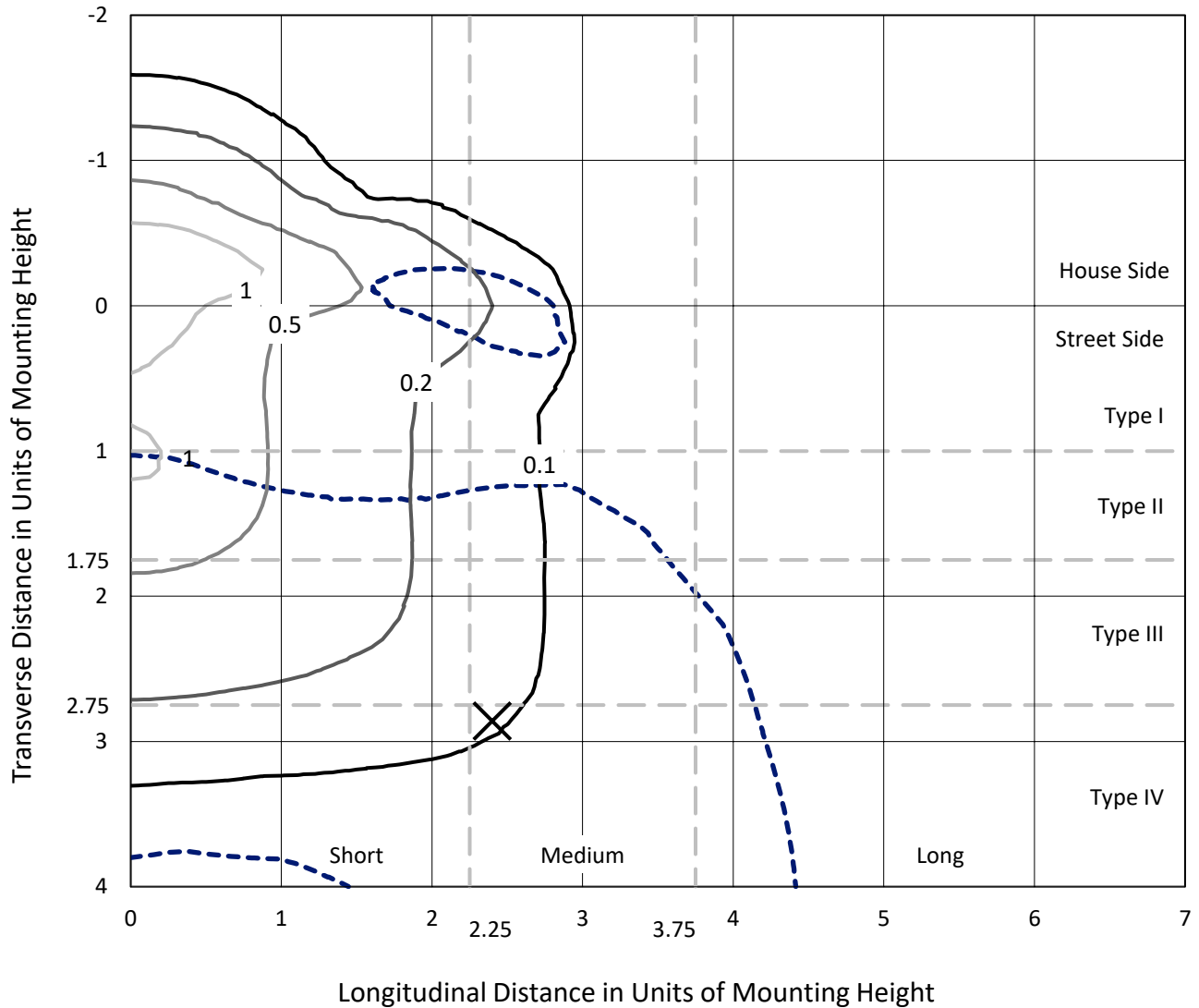
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

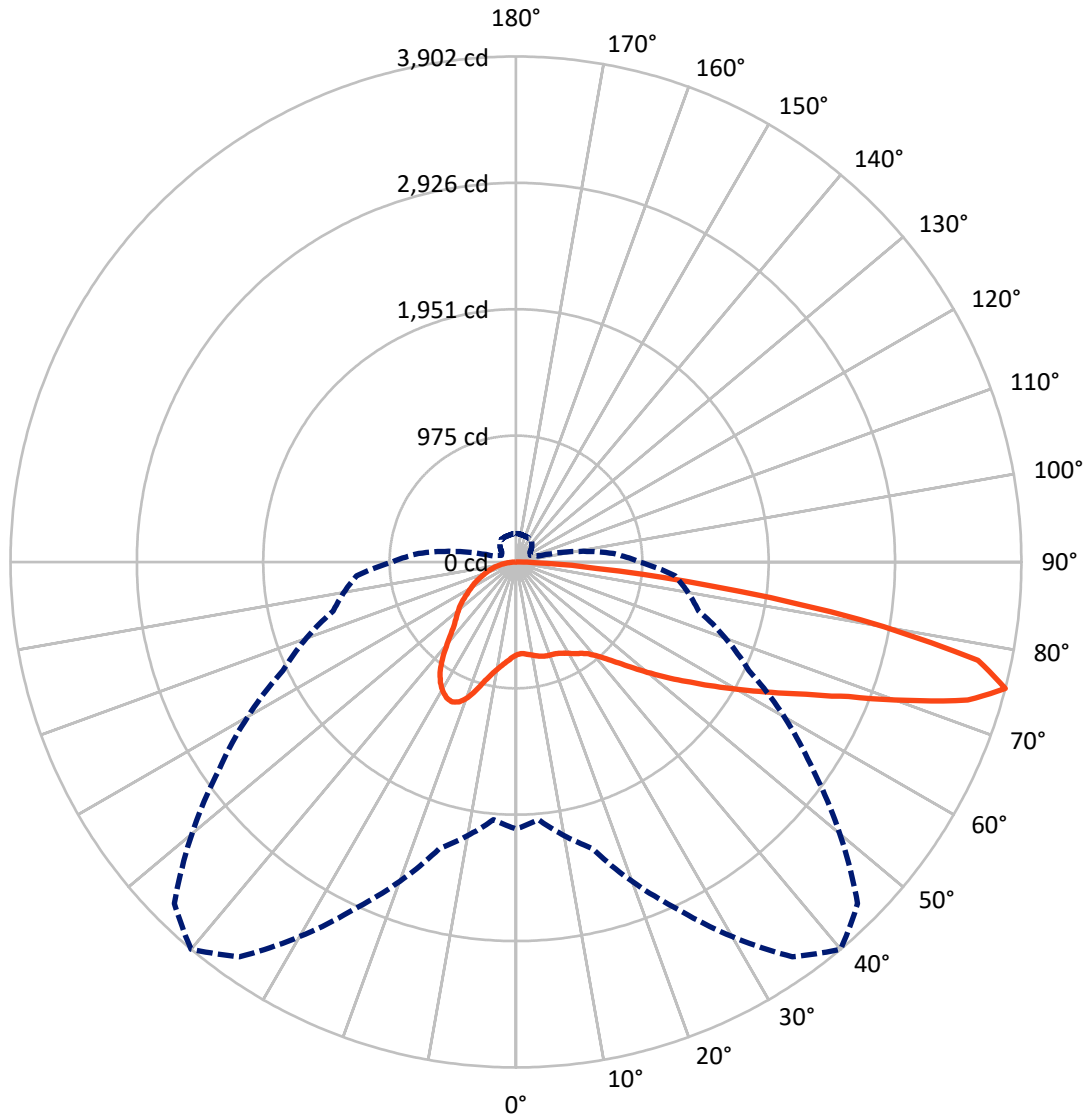
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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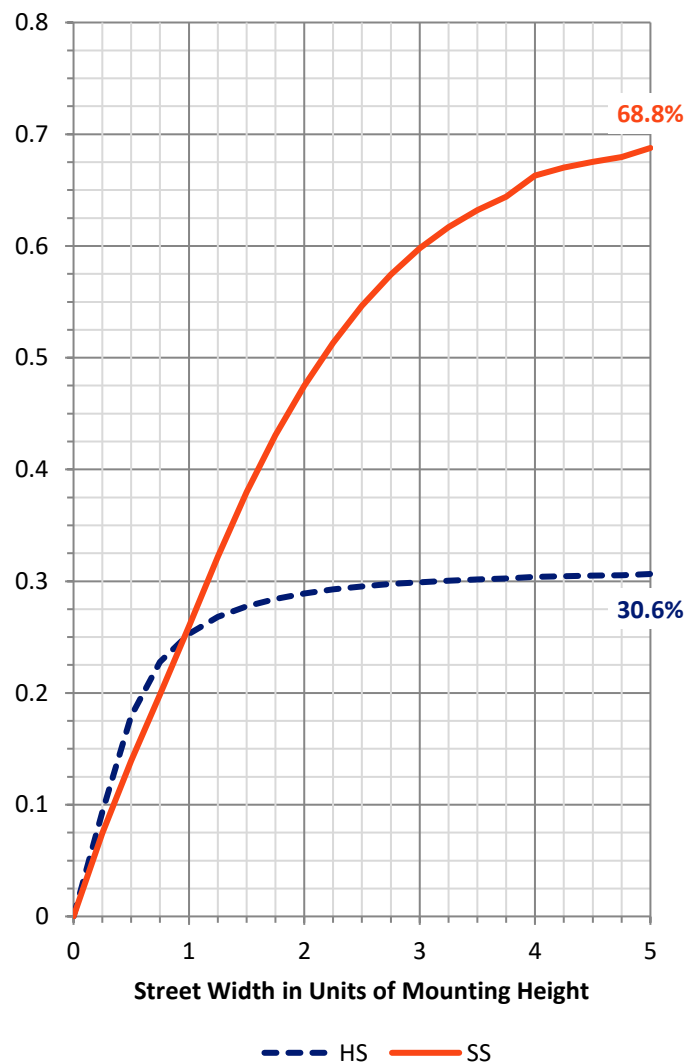
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1942.3	0.0	1942.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4326.7	0.0	4326.7
	% Fixture	69.0	0.0	69.0
Total	Lumens	6269.0	0.0	6269.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	1.1
10°-20°	240.2	3.8
20°-30°	438.7	7.0
30°-40°	622.2	9.9
40°-50°	840.1	13.4
50°-60°	1130.2	18.0
60°-70°	1434.4	22.9
70°-80°	1301.8	20.8
80°-90°	189.8	3.0
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°	6269.0	100.0
0°-180°	6269.0	100.0

Coefficient of Utilization



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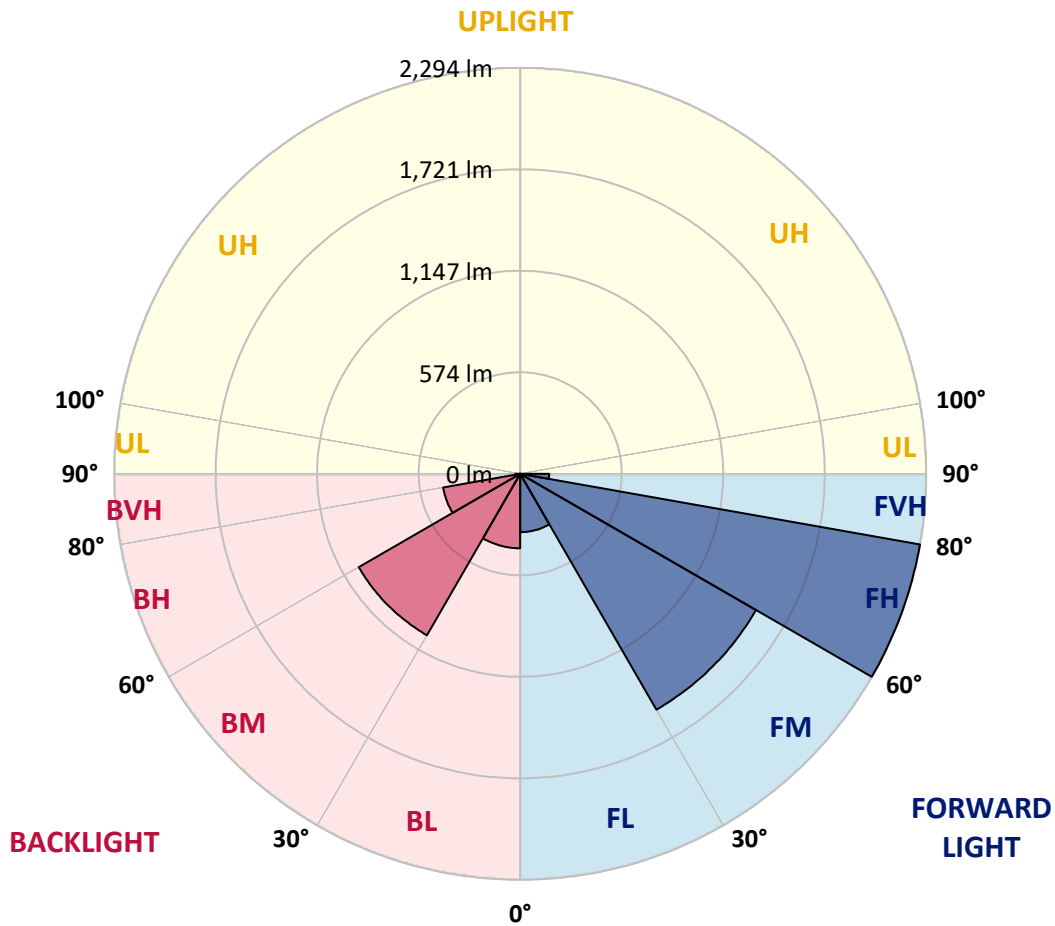
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	329.8	5.3			
FM (30°-60°)	1538.9	24.5			
FH (60°-80°)	2294.4	36.6			G2/5000
FVH (80°-90°)	163.6	2.6			G2/225
BL (0°-30°)	420.7	6.7	B1/500		
BM (30°-60°)	1053.5	16.8	B2/2500		
BH (60°-80°)	441.9	7.0	B1/500		G1/500
BVH (80°-90°)	26.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9
2.5°	705.9	709.9	708.9	707.6	707.6	707.9	707.6	709.9	712.2	714.5	718.2
5°	713.2	717.2	715.2	713.5	712.2	711.9	710.9	710.6	711.9	714.9	719.9
7.5°	727.5	731.5	728.5	725.5	722.9	721.5	720.2	718.2	717.2	718.9	725.8
10°	743.5	747.5	743.8	738.5	734.2	732.5	731.2	729.2	727.8	728.8	736.5
12.5°	759.4	763.4	758.4	751.1	745.5	744.5	742.8	742.1	741.8	741.5	749.1
15°	774.4	777.7	771.4	762.8	756.8	755.1	753.4	754.4	756.1	758.1	766.7
17.5°	786.0	789.4	780.0	768.7	763.1	762.4	761.4	764.7	769.4	774.4	785.0
20°	796.7	800.0	788.0	772.7	766.1	766.1	766.4	773.4	780.0	787.4	802.0
22.5°	811.6	814.3	799.7	778.7	769.1	769.7	772.4	779.4	787.7	797.7	817.9
25°	833.9	835.9	817.9	790.0	779.0	781.0	783.4	786.7	794.7	806.3	833.6
27.5°	869.8	871.5	847.9	810.0	793.3	796.7	800.0	797.7	801.3	811.3	846.2
30°	920.4	921.4	891.4	841.2	817.6	819.3	819.9	810.3	803.3	811.3	855.2
32.5°	980.2	979.9	944.3	879.1	845.2	843.6	837.9	818.9	802.7	809.6	863.2
35°	1073.0	1069.3	1023.4	932.3	876.5	866.2	852.9	828.6	806.0	808.0	870.2
37.5°	1226.6	1215.3	1151.8	1019.4	923.0	896.8	877.1	844.2	813.3	807.3	878.5
40°	1399.8	1385.5	1315.7	1138.8	992.8	950.6	919.0	866.5	825.3	810.3	890.8
42.5°	1605.3	1585.0	1509.9	1279.5	1081.3	1020.1	972.6	894.8	842.9	819.9	907.4
45°	1857.7	1830.7	1724.3	1438.1	1192.7	1111.2	1047.7	937.6	869.8	838.6	932.3
47.5°	2112.7	2119.4	1968.1	1619.6	1326.3	1223.6	1141.8	1002.2	909.1	868.5	972.6
50°	2383.7	2388.3	2210.5	1820.8	1478.0	1350.6	1247.5	1074.3	963.6	911.0	1032.7
52.5°	2595.2	2595.8	2430.6	2031.2	1635.9	1490.3	1361.6	1156.8	1026.8	967.6	1112.9
55°	2727.5	2725.8	2584.8	2230.4	1817.4	1636.9	1487.9	1250.5	1103.9	1034.1	1213.6
57.5°	2823.6	2818.6	2691.2	2401.6	2011.0	1810.1	1630.9	1356.9	1195.0	1113.2	1346.3
60°	2860.2	2857.2	2763.4	2549.6	2214.4	2001.6	1795.8	1476.0	1298.4	1206.6	1516.9
62.5°	2874.1	2879.8	2834.2	2692.9	2432.2	2213.8	1977.0	1618.3	1414.8	1312.4	1696.7
65°	2923.3	2933.6	2924.3	2880.4	2678.3	2462.2	2217.4	1787.5	1541.8	1425.8	1884.6
67.5°	3020.8	3031.1	3035.1	3104.9	2978.9	2771.7	2517.4	1998.3	1690.4	1543.5	2025.9
70°	3018.4	3015.4	3085.9	3283.4	3355.3	3200.3	2921.7	2257.7	1867.6	1641.2	2043.9
72.5°	2747.4	2723.5	2890.1	3281.4	3668.5	3647.8	3415.4	2592.2	2020.6	1653.2	1773.6
75°	2061.2	1997.3	2291.6	2957.2	3720.7	3901.9	3729.3	2799.6	1984.4	1460.7	1234.2
77.5°	881.5	817.3	1164.1	2189.2	3330.0	3647.5	3441.4	2442.5	1584.0	965.9	606.1
80°	230.8	230.4	351.8	992.5	2264.7	2693.6	2363.1	1577.4	905.1	345.1	167.2
82.5°	95.4	93.1	129.3	386.0	1106.6	1511.5	1233.6	703.6	326.8	93.4	55.5
85°	35.6	35.2	62.8	133.3	390.4	623.4	451.2	179.9	81.5	45.6	24.9
87.5°	10.0	9.6	13.6	46.2	95.1	144.3	77.1	29.6	22.9	18.0	7.3
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°	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9	716.9
2.5°	719.2	720.9	723.9	726.2	729.2	732.5	737.2	740.1	743.1	745.1	743.8
5°	722.2	725.8	733.5	741.1	750.1	758.4	768.1	775.1	780.7	782.4	783.0
7.5°	728.8	734.8	747.8	760.8	775.1	788.7	802.7	814.6	824.3	827.9	828.3
10°	740.5	748.5	766.7	785.0	804.0	824.9	842.9	860.2	873.8	879.5	879.8
12.5°	755.1	765.1	789.0	814.3	840.6	869.5	892.8	914.0	931.0	938.6	938.6
15°	774.1	787.0	817.6	851.5	890.1	930.3	959.9	983.5	1002.5	1011.8	1011.1
17.5°	794.7	812.0	850.5	901.7	956.9	1009.8	1044.4	1061.7	1081.3	1090.3	1089.9
20°	814.6	835.9	891.1	965.6	1039.1	1095.3	1123.2	1127.8	1129.2	1130.2	1132.8
22.5°	835.2	863.8	942.0	1046.0	1124.8	1163.7	1167.7	1147.8	1119.9	1106.9	1110.5
25°	857.8	895.8	1008.5	1134.8	1198.7	1203.3	1172.7	1124.2	1071.3	1047.0	1050.7
27.5°	879.8	932.7	1088.3	1219.6	1251.9	1211.0	1145.1	1076.3	1012.5	986.9	989.9
30°	901.7	974.9	1176.4	1293.8	1276.1	1192.0	1101.6	1024.8	960.6	933.7	936.7
32.5°	924.0	1024.1	1277.8	1347.3	1271.8	1151.8	1047.4	966.9	910.4	882.1	885.8
35°	949.3	1084.6	1373.9	1376.5	1242.9	1092.6	975.9	897.7	848.5	825.9	830.9
37.5°	982.2	1161.4	1458.7	1383.9	1192.3	1005.8	887.1	816.0	775.4	765.1	772.4
40°	1023.1	1253.9	1523.5	1372.2	1117.5	900.4	790.0	733.2	710.2	712.5	720.5
42.5°	1076.3	1357.3	1569.1	1342.3	1013.5	791.7	704.9	679.6	690.6	699.9	708.6
45°	1145.5	1464.7	1597.3	1291.4	895.8	699.6	654.7	660.7	669.0	670.0	676.6
47.5°	1233.9	1573.4	1615.9	1214.6	775.7	634.7	622.8	624.1	622.4	615.5	620.8
50°	1344.3	1679.1	1632.6	1112.9	673.6	594.2	578.2	573.6	550.6	528.0	531.0
52.5°	1470.0	1776.2	1639.6	986.5	594.2	560.3	534.3	505.1	462.2	455.2	457.5
55°	1609.6	1866.0	1621.6	831.2	527.3	516.7	477.5	442.2	437.6	431.6	432.6
57.5°	1776.5	1962.7	1585.0	658.0	458.8	465.8	427.6	431.6	423.3	414.0	412.3
60°	1959.1	2062.8	1520.9	500.1	388.0	402.3	414.6	414.3	412.0	404.3	401.7
62.5°	2123.3	2128.7	1394.5	383.0	325.8	353.1	386.7	386.4	384.4	380.0	378.4
65°	2221.1	2118.7	1183.7	301.6	274.6	312.5	348.8	351.5	351.8	351.5	351.5
67.5°	2203.8	2002.0	894.4	240.1	232.4	271.3	311.2	314.9	317.5	318.2	318.9
70°	2008.3	1745.6	583.2	191.5	194.8	235.1	275.6	279.3	281.6	284.3	285.6
72.5°	1565.4	1283.4	333.8	154.9	161.9	203.8	240.4	244.7	246.0	251.0	253.0
75°	953.9	754.8	180.2	122.0	133.0	174.2	205.5	210.5	212.8	218.8	219.4
77.5°	453.5	326.8	102.7	95.1	107.1	142.3	173.6	179.2	172.9	176.2	173.6
80°	153.3	121.4	64.8	72.5	81.8	111.1	139.0	144.6	131.3	130.7	129.3
82.5°	53.5	49.2	41.2	48.2	52.9	79.5	105.1	112.4	97.8	97.4	92.8
85°	20.9	19.9	22.9	26.3	31.6	48.9	69.2	72.8	60.2	48.5	47.9
87.5°	4.3	4.7	5.7	6.0	9.6	17.0	24.9	30.6	24.3	20.6	19.0
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)