

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: P881883

Luminaire Tested: **NAV-SB1C-730-U-SL4-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-730-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5150 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

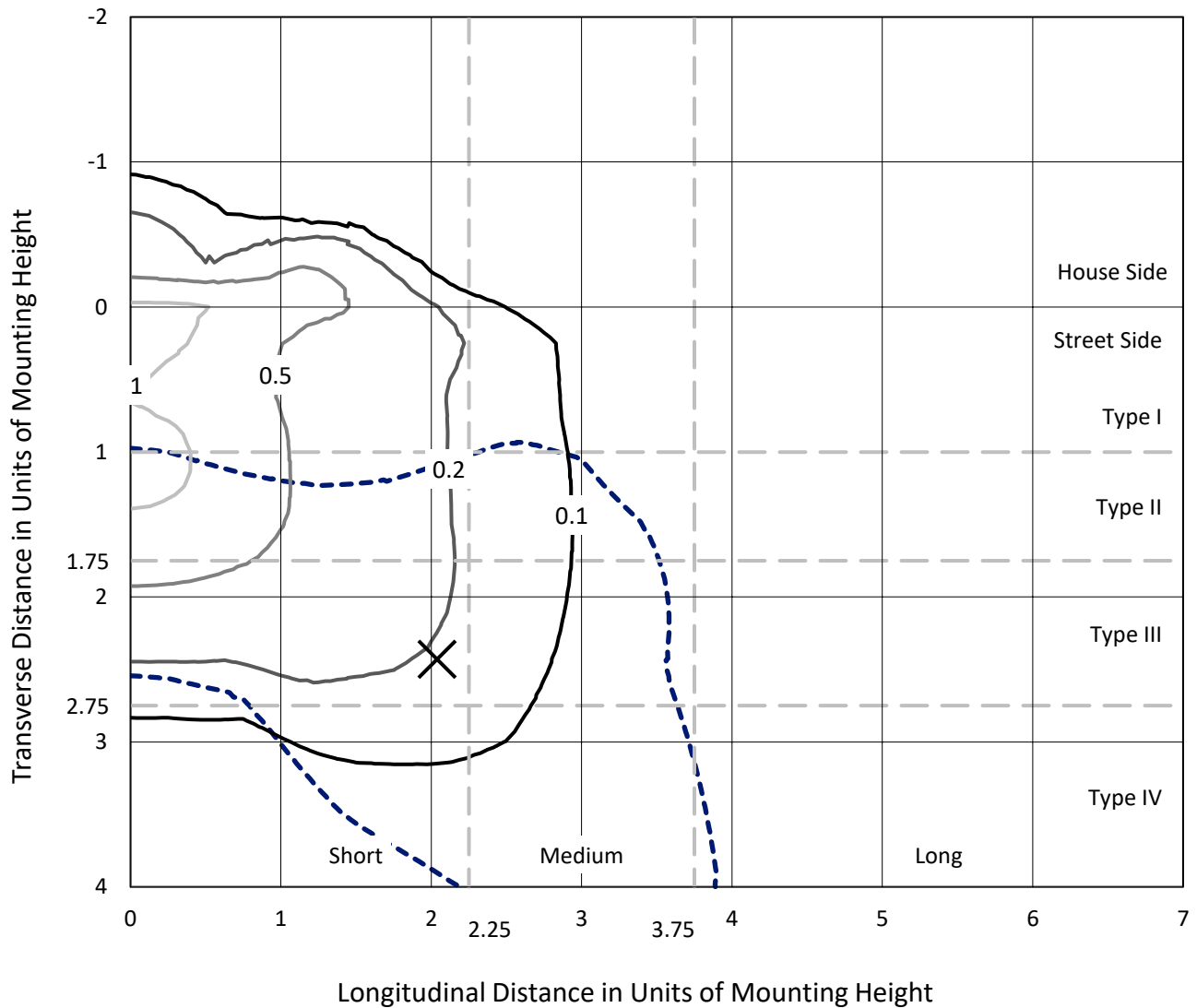
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P881883
 CATALOG NUMBER: NAV-SB1C-730-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

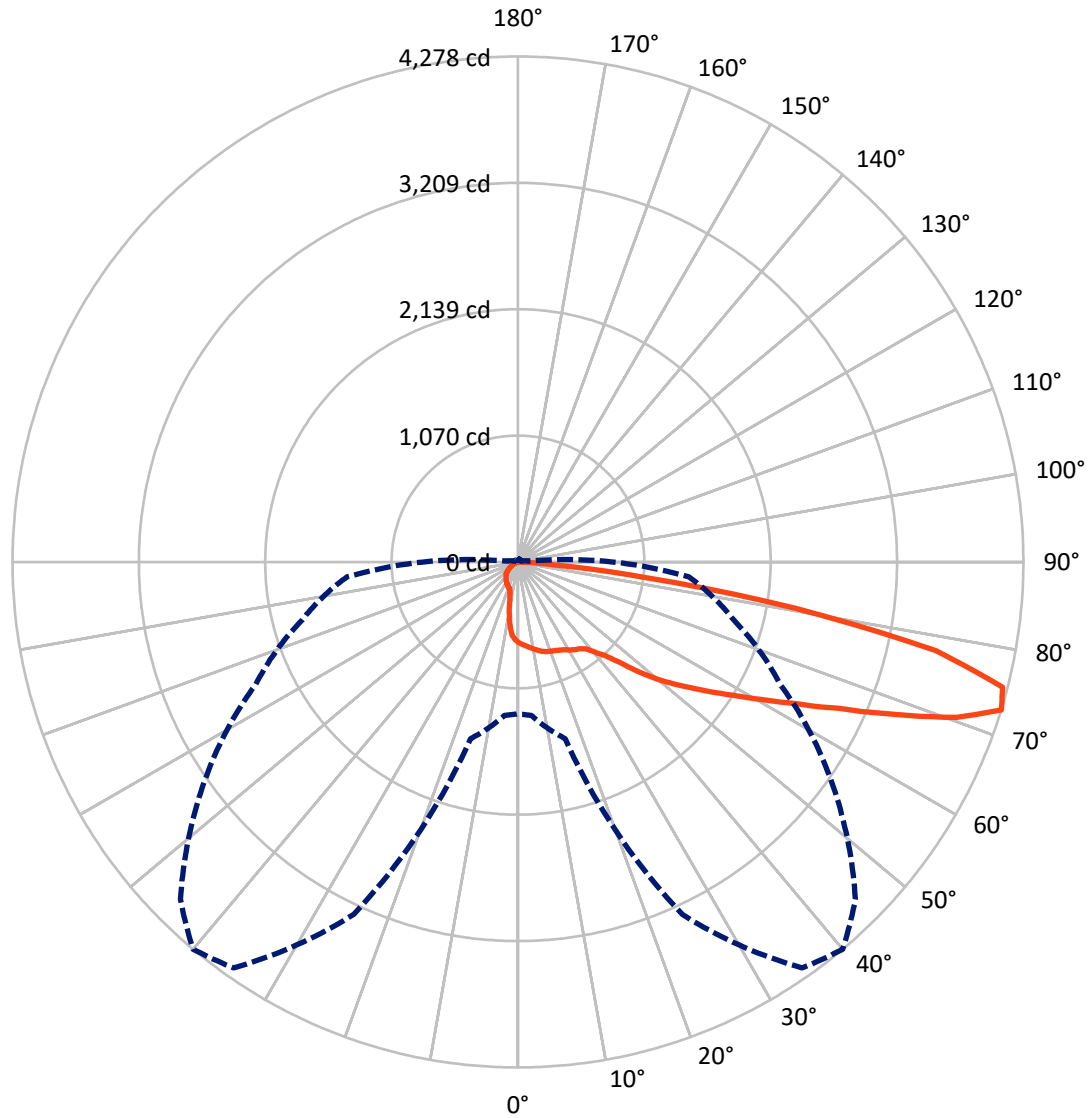
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P881883
CATALOG NUMBER: NAV-SB1C-730-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P881883
 CATALOG NUMBER: NAV-SB1C-730-U-SL4-HSS

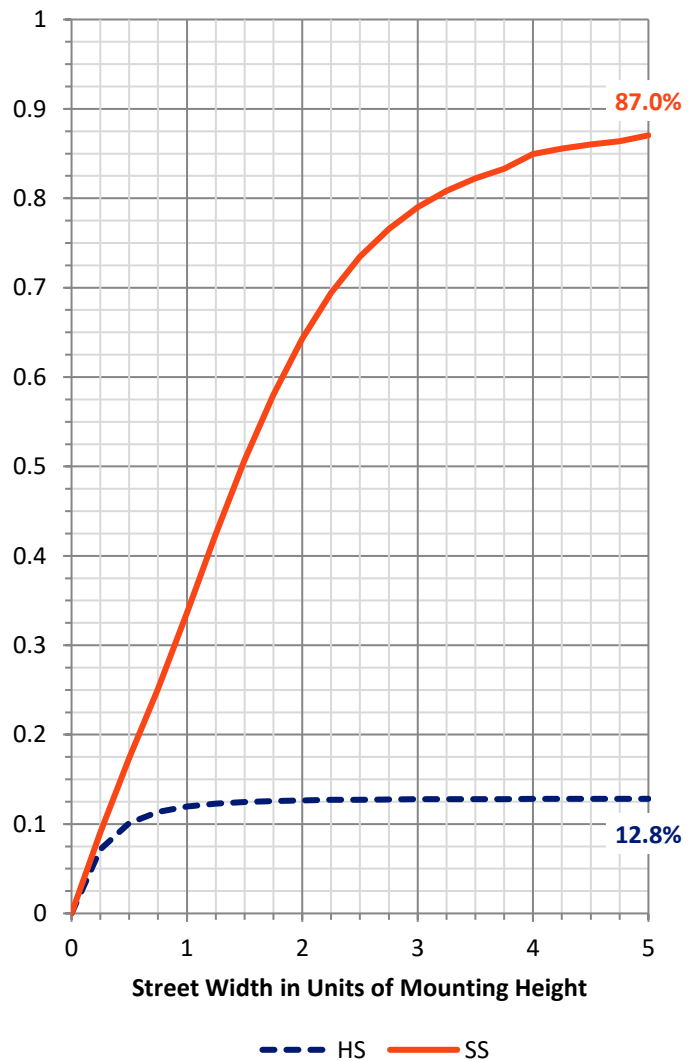
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	665.1	0.0	665.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	4484.9	0.0	4484.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	5150.0	0.0	5150.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	1.2
10°-20°	169.1	3.3
20°-30°	273.7	5.3
30°-40°	404.0	7.8
40°-50°	680.0	13.2
50°-60°	1055.8	20.5
60°-70°	1321.1	25.7
70°-80°	1081.6	21.0
80°-90°	102.6	2.0
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°	5150.0	100.0
0°-180°	5150.0	100.0

Coefficient of Utilization



REPORT NUMBER: P881883

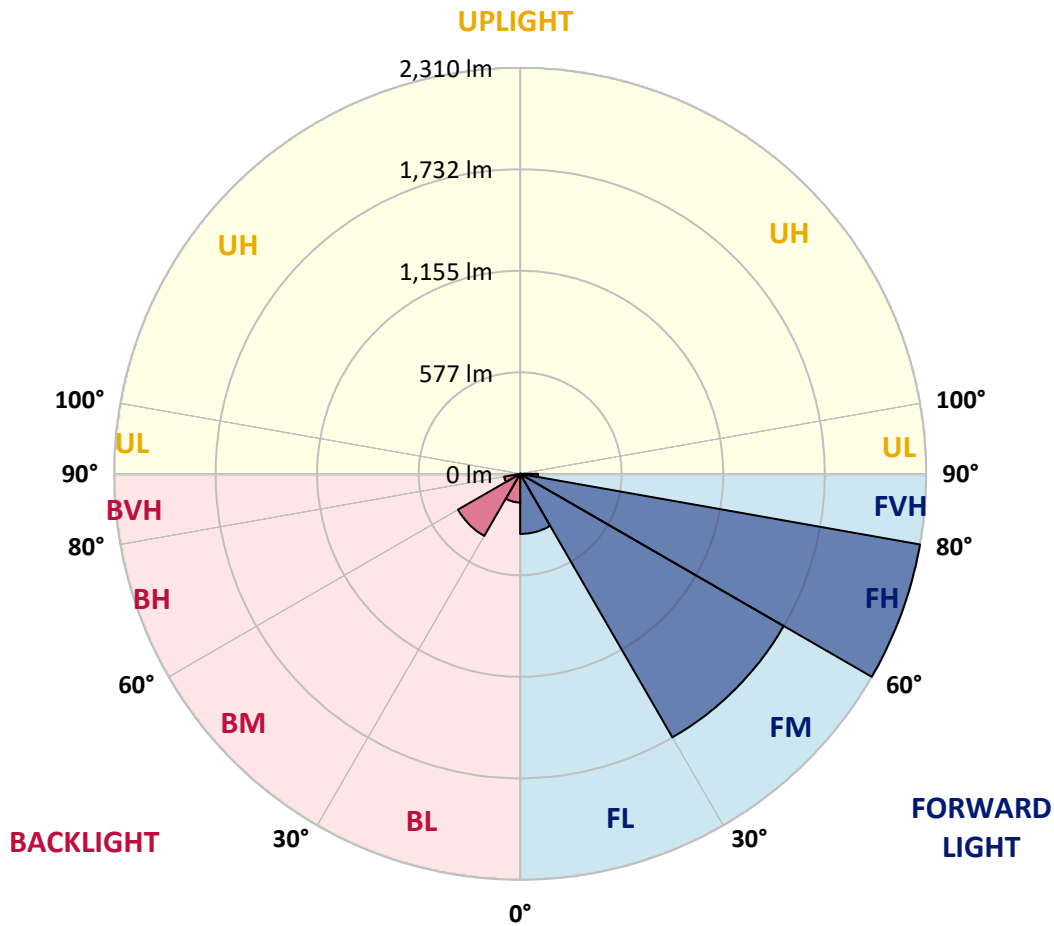
CATALOG NUMBER: NAV-SB1C-730-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.8	6.6			
FM (30°-60°)	1731.3	33.6			
FH (60°-80°)	2310.0	44.9			G2/5000
FVH (80°-90°)	101.8	2.0			G2/225
BL (0°-30°)	163.2	3.2	B1/500		
BM (30°-60°)	408.4	7.9	B1/1000		
BH (60°-80°)	92.7	1.8	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-G2

Type IV Short



REPORT NUMBER: P881883

CATALOG NUMBER: NAV-SB1C-730-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9
2.5°	702.5	705.2	703.6	700.5	699.7	698.2	696.3	695.5	692.8	690.4	687.7
5°	722.2	725.0	723.0	718.8	716.8	714.9	712.2	709.8	704.4	699.4	693.2
7.5°	744.0	746.3	744.0	737.8	734.7	732.3	728.4	725.0	718.8	711.4	703.6
10°	768.0	770.0	766.5	758.3	753.3	749.8	746.3	742.4	736.6	728.4	719.1
12.5°	790.5	792.8	787.4	777.7	771.9	768.4	764.5	761.4	755.6	747.8	738.1
15°	811.1	814.6	805.2	794.8	788.2	785.5	781.6	779.6	775.8	770.3	761.4
17.5°	826.6	828.9	819.2	806.8	799.4	797.5	794.8	795.9	795.2	792.4	786.6
20°	839.8	841.3	828.5	813.4	805.2	805.6	804.9	808.7	810.3	810.3	809.9
22.5°	856.1	856.4	840.2	821.2	811.5	814.2	815.3	819.6	822.7	825.8	832.8
25°	877.4	876.6	857.2	831.2	822.7	826.6	829.3	830.8	834.3	839.4	855.3
27.5°	909.2	906.9	882.1	847.5	837.4	840.9	846.0	845.2	843.6	847.5	874.3
30°	949.5	946.4	913.5	870.4	861.1	864.2	865.8	858.8	847.5	851.0	891.0
32.5°	1013.5	1008.1	962.3	896.0	881.7	885.2	883.2	868.9	852.2	855.7	907.7
35°	1124.9	1111.7	1046.9	949.5	904.9	901.1	896.4	882.4	861.9	858.4	921.6
37.5°	1361.5	1338.2	1227.7	1053.9	957.7	932.5	918.1	904.2	872.4	858.4	937.5
40°	1628.3	1604.7	1477.1	1228.4	1045.3	1002.7	968.5	929.8	883.2	863.4	962.3
42.5°	1906.8	1880.9	1749.7	1444.9	1170.6	1083.0	1019.4	950.3	901.1	878.9	995.3
45°	2217.9	2185.3	2013.9	1670.6	1352.6	1216.4	1101.2	992.6	932.1	906.5	1040.3
47.5°	2546.1	2503.8	2277.3	1889.8	1548.4	1401.0	1250.9	1068.2	977.9	947.6	1101.2
50°	2837.0	2795.1	2549.2	2119.0	1731.5	1576.8	1421.6	1173.0	1046.5	1005.8	1183.0
52.5°	3046.1	3014.3	2796.7	2355.6	1922.0	1741.6	1576.4	1294.8	1133.4	1080.3	1279.6
55°	3186.1	3157.0	2972.0	2579.8	2143.5	1923.1	1728.8	1427.0	1238.1	1169.5	1386.3
57.5°	3271.0	3254.4	3098.8	2780.0	2363.0	2121.7	1903.4	1572.5	1361.5	1274.6	1505.4
60°	3301.3	3287.7	3177.6	2970.8	2628.3	2360.3	2108.5	1736.6	1511.2	1394.1	1627.6
62.5°	3220.6	3223.3	3234.2	3196.9	2908.0	2639.6	2354.5	1933.6	1677.2	1529.4	1742.4
65°	2840.9	2863.4	3069.7	3447.5	3278.4	2989.4	2667.5	2174.1	1867.3	1683.4	1833.5
67.5°	2352.1	2384.7	2641.5	3594.1	3673.3	3443.6	3103.5	2480.5	2093.8	1840.1	1868.1
70°	1800.6	1835.5	2146.6	3563.5	4042.9	3940.1	3642.6	2870.3	2328.5	1948.7	1780.0
72.5°	1285.1	1302.9	1548.0	3290.8	4194.6	4278.4	4039.8	3239.6	2448.3	1888.6	1451.9
75°	903.0	899.9	1062.4	2650.0	3958.4	4237.3	3900.6	3039.9	2215.6	1500.3	895.2
77.5°	393.3	394.1	530.6	1609.3	3159.3	3619.0	3242.3	1904.1	1544.6	795.2	377.8
80°	102.0	105.1	194.7	640.8	1902.2	2388.6	1977.4	837.1	713.7	193.9	72.1
82.5°	36.1	38.4	89.6	201.3	701.7	1095.4	880.5	267.6	186.2	55.5	19.4
85°	10.5	12.4	48.1	61.7	145.1	309.5	213.7	52.0	45.8	28.7	5.0
87.5°	0.0	1.6	9.7	8.5	8.5	5.8	10.9	5.8	7.4	3.5	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P881883

CATALOG NUMBER: NAV-SB1C-730-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9	681.9
2.5°	685.4	682.7	676.9	670.7	664.8	659.4	657.9	652.0	649.3	649.7	649.3
5°	688.9	683.8	672.6	659.0	645.1	629.1	616.0	597.3	581.4	579.5	578.3
7.5°	698.2	690.0	671.8	645.4	610.5	566.7	526.0	485.6	462.7	450.3	449.6
10°	712.5	701.7	673.8	623.3	549.2	470.9	409.2	358.4	332.4	320.4	318.1
12.5°	729.6	717.6	676.9	585.7	470.1	367.3	300.6	269.6	264.1	263.4	263.0
15°	753.7	740.5	680.4	534.9	384.4	279.7	249.0	249.4	253.7	256.0	255.6
17.5°	780.4	767.2	675.3	472.8	299.8	238.9	238.2	241.7	247.9	250.2	249.8
20°	807.6	795.2	657.5	399.9	242.4	227.7	230.8	234.7	240.9	244.0	244.0
22.5°	835.5	824.6	629.1	322.3	218.8	219.5	223.4	227.3	234.3	237.8	237.8
25°	865.4	856.1	591.5	258.3	208.7	211.0	216.1	220.7	228.1	232.3	232.3
27.5°	895.6	888.6	548.9	215.7	199.4	202.1	207.9	214.1	221.5	226.5	226.9
30°	928.6	924.7	514.7	199.8	190.5	192.8	199.4	206.4	214.5	220.7	221.5
32.5°	962.3	961.6	498.0	211.4	182.3	183.9	189.7	196.7	206.7	214.5	215.3
35°	995.7	997.3	488.3	244.4	179.6	175.3	179.2	185.4	197.4	207.1	208.7
37.5°	1038.4	1042.2	488.0	280.1	186.2	166.8	169.5	173.8	184.2	195.5	197.4
40°	1102.0	1122.5	512.8	310.7	197.8	159.0	159.8	160.6	166.0	175.3	178.4
42.5°	1186.5	1246.7	602.4	331.6	202.5	152.1	149.3	145.1	144.3	149.3	152.1
45°	1291.7	1396.8	759.9	343.3	197.8	144.3	136.9	125.7	121.4	124.9	124.9
47.5°	1415.4	1561.2	946.4	346.0	190.1	134.6	121.4	106.7	103.2	104.3	104.0
50°	1536.0	1684.6	1110.5	323.5	177.3	122.2	104.3	91.9	89.6	90.0	90.0
52.5°	1642.7	1726.9	1157.1	270.4	160.2	107.1	89.6	81.1	79.5	79.5	79.1
55°	1713.3	1681.1	1031.8	206.7	138.9	91.5	76.8	72.5	71.8	71.4	70.6
57.5°	1728.0	1532.1	779.3	149.3	108.6	77.2	68.3	65.9	64.4	62.8	62.1
60°	1675.3	1283.9	496.1	104.3	81.5	65.9	60.5	59.0	55.9	52.8	51.6
62.5°	1561.2	969.7	274.6	72.5	65.6	56.2	53.5	51.6	45.8	40.7	39.2
65°	1408.0	644.7	121.4	56.6	53.5	47.3	45.8	43.1	36.1	30.3	29.1
67.5°	1254.0	371.2	54.7	45.4	43.1	38.8	37.6	35.7	30.6	25.2	24.4
70°	1078.3	188.1	37.6	36.1	33.4	29.5	30.6	30.3	25.2	20.6	19.8
72.5°	802.9	93.5	28.3	27.2	24.0	20.9	25.2	24.8	19.8	15.5	14.7
75°	454.6	46.2	20.6	19.0	14.4	15.5	20.2	19.0	13.6	10.1	9.3
77.5°	180.4	23.7	13.6	11.6	8.5	10.5	14.7	12.8	7.0	4.3	3.9
80°	41.5	11.6	7.0	5.0	3.9	6.2	7.8	4.7	1.9	0.4	0.0
82.5°	11.6	5.0	2.3	1.9	1.9	2.3	1.9	0.8	0.0	0.0	0.0
85°	3.9	2.3	0.8	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	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)