

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: P881863

Luminaire Tested: **NAV-SB1C-722-U-SL4-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P881863
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-722-U-SL4-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 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: 4169 lumens
Efficiency: N/A
Efficacy: 76.6 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

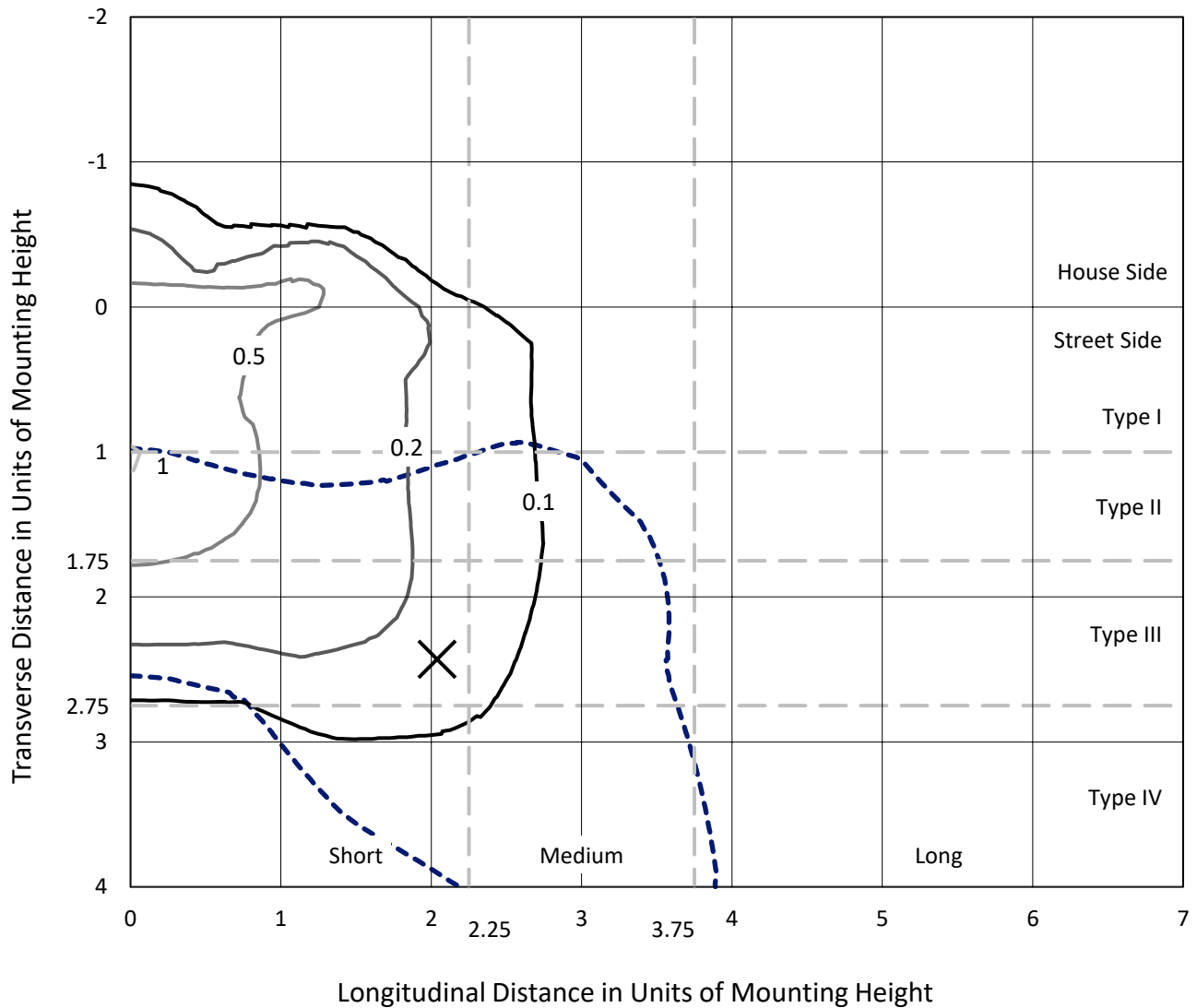
Input Watts (W): 54.4
Input Voltage (V): 120.0
Input Current (Ain): 0.437
Voltage Rise (V): NR
Power Factor: 0.993
Total Harmonic Distortion (THDi): 9.314
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

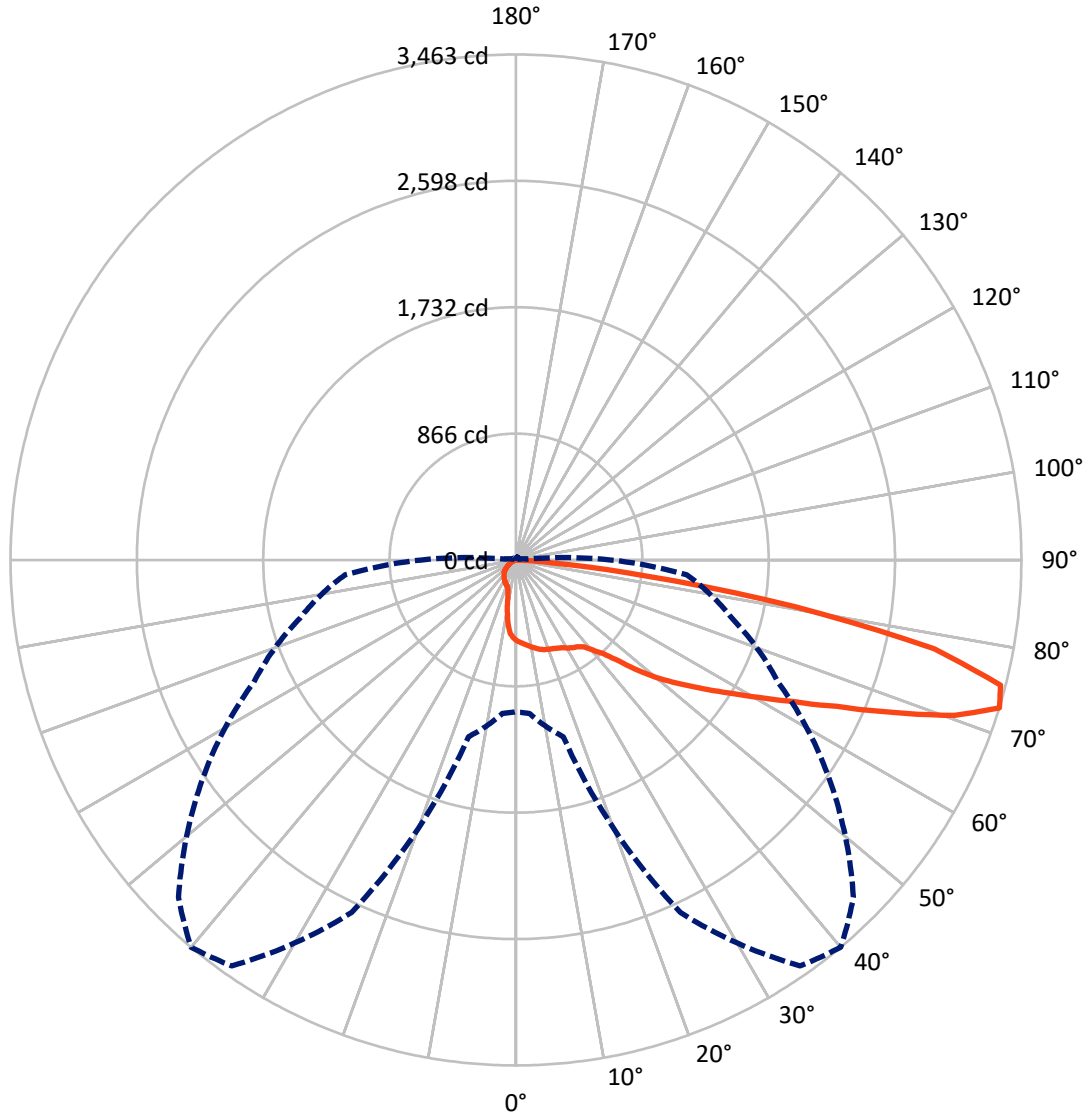
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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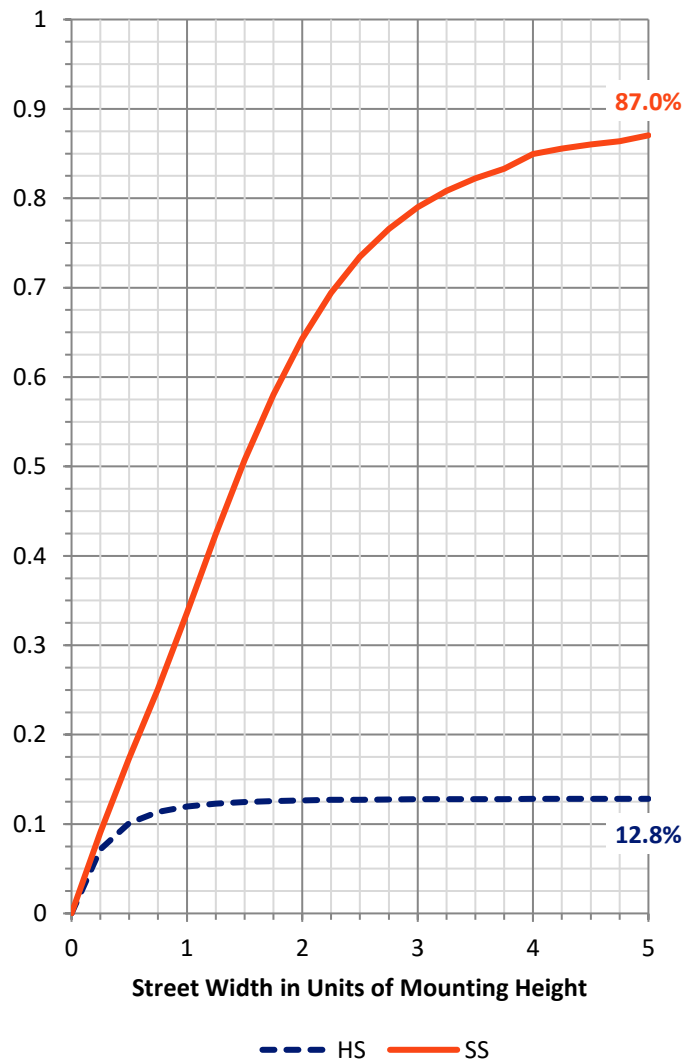
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	538.4	0.0	538.4
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	3630.6	0.0	3630.6
	% Fixture	87.1	0.0	87.1
Total	Lumens	4169.0	0.0	4169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	1.2
10°-20°	136.9	3.3
20°-30°	221.5	5.3
30°-40°	327.0	7.8
40°-50°	550.4	13.2
50°-60°	854.7	20.5
60°-70°	1069.4	25.7
70°-80°	875.6	21.0
80°-90°	83.0	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°	4169.0	100.0
0°-180°	4169.0	100.0

Coefficient of Utilization



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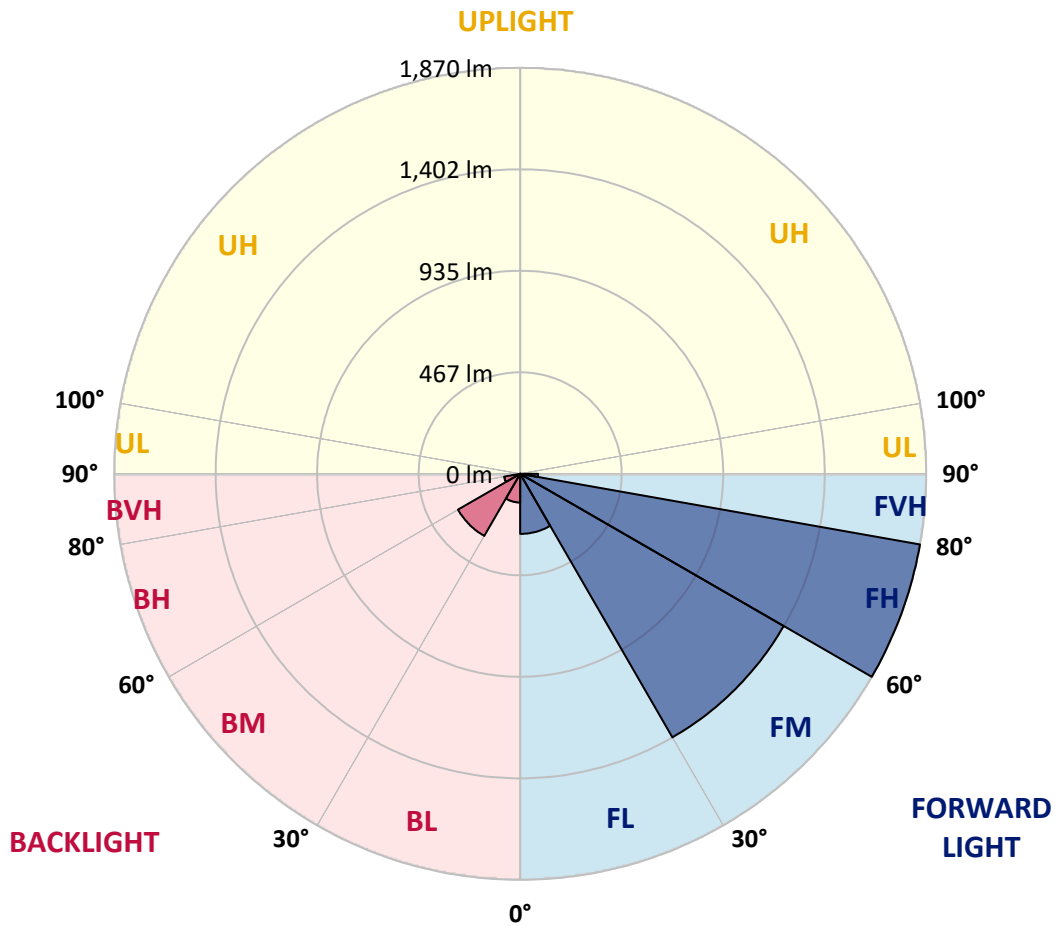
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.7	6.6			
FM (30°-60°)	1401.5	33.6			
FH (60°-80°)	1870.0	44.9			G2/5000
FVH (80°-90°)	82.4	2.0			G1/100
BL (0°-30°)	132.1	3.2	B1/500		
BM (30°-60°)	330.6	7.9	B1/1000		
BH (60°-80°)	75.0	1.8	B0/110		G0/110
BVH (80°-90°)	0.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
2.5°	568.7	570.8	569.6	567.1	566.5	565.2	563.6	563.0	560.8	558.9	556.7
5°	584.7	586.9	585.3	581.8	580.3	578.7	576.5	574.6	570.2	566.1	561.1
7.5°	602.2	604.1	602.2	597.2	594.7	592.8	589.7	586.9	581.8	575.9	569.6
10°	621.7	623.3	620.5	613.9	609.8	607.0	604.1	601.0	596.3	589.7	582.2
12.5°	639.9	641.8	637.4	629.6	624.9	622.0	618.9	616.4	611.7	605.4	597.5
15°	656.6	659.4	651.9	643.4	638.0	635.8	632.7	631.1	628.0	623.6	616.4
17.5°	669.1	671.0	663.2	653.1	647.2	645.6	643.4	644.3	643.7	641.5	636.8
20°	679.8	681.1	670.7	658.5	651.9	652.2	651.5	654.7	655.9	655.9	655.6
22.5°	693.0	693.3	680.1	664.7	656.9	659.1	660.0	663.5	666.0	668.5	674.2
25°	710.3	709.6	693.9	672.9	666.0	669.1	671.3	672.6	675.4	679.5	692.4
27.5°	736.0	734.1	714.0	686.1	677.9	680.7	684.8	684.2	682.9	686.1	707.8
30°	768.7	766.2	739.5	704.6	697.1	699.6	700.8	695.2	686.1	688.9	721.3
32.5°	820.5	816.1	779.0	725.3	713.7	716.5	715.0	703.4	689.9	692.7	734.8
35°	910.6	899.9	847.5	768.7	732.6	729.4	725.7	714.3	697.7	694.9	746.1
37.5°	1102.1	1083.3	993.8	853.1	775.3	754.9	743.2	731.9	706.2	694.9	758.9
40°	1318.2	1299.0	1195.7	994.4	846.2	811.7	784.1	752.7	715.0	699.0	779.0
42.5°	1543.6	1522.6	1416.4	1169.6	947.6	876.7	825.2	769.3	729.4	711.5	805.7
45°	1795.4	1769.1	1630.3	1352.4	1094.9	984.7	891.4	803.5	754.5	733.8	842.1
47.5°	2061.1	2026.9	1843.5	1529.8	1253.5	1134.2	1012.6	864.8	791.6	767.1	891.4
50°	2296.6	2262.7	2063.6	1715.4	1401.7	1276.4	1150.8	949.5	847.2	814.2	957.7
52.5°	2465.8	2440.1	2263.9	1906.9	1555.9	1409.9	1276.1	1048.1	917.5	874.5	1035.9
55°	2579.2	2555.6	2405.9	2088.4	1735.2	1556.8	1399.5	1155.2	1002.3	946.7	1122.2
57.5°	2647.9	2634.4	2508.5	2250.4	1912.9	1717.6	1540.8	1273.0	1102.1	1031.8	1218.6
60°	2672.4	2661.5	2572.3	2404.9	2127.7	1910.7	1706.9	1405.8	1223.3	1128.5	1317.5
62.5°	2607.1	2609.3	2618.1	2588.0	2354.0	2136.8	1906.0	1565.3	1357.7	1238.1	1410.5
65°	2299.7	2317.9	2485.0	2790.8	2653.9	2420.0	2159.4	1760.0	1511.6	1362.8	1484.3
67.5°	1904.1	1930.5	2138.3	2909.5	2973.6	2787.7	2512.3	2008.0	1695.0	1489.6	1512.2
70°	1457.6	1485.8	1737.7	2884.7	3272.8	3189.6	2948.8	2323.6	1884.9	1577.5	1440.9
72.5°	1040.3	1054.7	1253.2	2664.0	3395.6	3463.4	3270.3	2622.5	1982.0	1528.9	1175.3
75°	731.0	728.5	860.0	2145.2	3204.4	3430.1	3157.6	2460.8	1793.6	1214.5	724.7
77.5°	318.4	319.0	429.5	1302.8	2557.5	2929.6	2624.7	1541.4	1250.3	643.7	305.8
80°	82.6	85.1	157.6	518.7	1539.8	1933.6	1600.8	677.6	577.8	157.0	58.4
82.5°	29.2	31.1	72.5	163.0	568.0	886.7	712.8	216.7	150.7	44.9	15.7
85°	8.5	10.0	38.9	49.9	117.4	250.6	173.0	42.1	37.1	23.2	4.1
87.5°	0.0	1.3	7.8	6.9	6.9	4.7	8.8	4.7	6.0	2.8	1.3
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°	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0	552.0
2.5°	554.8	552.6	547.9	542.9	538.2	533.8	532.5	527.8	525.6	525.9	525.6
5°	557.7	553.6	544.5	533.5	522.2	509.3	498.6	483.6	470.7	469.1	468.2
7.5°	565.2	558.6	543.8	522.5	494.2	458.8	425.8	393.1	374.6	364.6	363.9
10°	576.8	568.0	545.4	504.6	444.6	381.2	331.3	290.1	269.1	259.4	257.5
12.5°	590.6	580.9	547.9	474.1	380.6	297.4	243.3	218.2	213.8	213.2	212.9
15°	610.1	599.4	550.8	433.0	311.2	226.4	201.6	201.9	205.4	207.2	206.9
17.5°	631.8	621.1	546.7	382.8	242.7	193.4	192.8	195.6	200.6	202.5	202.2
20°	653.7	643.7	532.2	323.7	196.2	184.3	186.8	190.0	195.0	197.5	197.5
22.5°	676.4	667.6	509.3	260.9	177.1	177.7	180.9	184.0	189.7	192.5	192.5
25°	700.5	693.0	478.8	209.1	168.9	170.8	174.9	178.7	184.6	188.1	188.1
27.5°	725.0	719.4	444.3	174.6	161.4	163.6	168.3	173.3	179.3	183.4	183.7
30°	751.7	748.6	416.7	161.7	154.2	156.1	161.4	167.0	173.6	178.7	179.3
32.5°	779.0	778.4	403.2	171.1	147.6	148.8	153.5	159.2	167.4	173.6	174.3
35°	806.0	807.3	395.3	197.8	145.4	141.9	145.1	150.1	159.8	167.7	168.9
37.5°	840.6	843.7	395.0	226.7	150.7	135.0	137.2	140.7	149.1	158.3	159.8
40°	892.1	908.7	415.1	251.5	160.1	128.7	129.4	130.0	134.4	141.9	144.4
42.5°	960.5	1009.2	487.6	268.5	163.9	123.1	120.9	117.4	116.8	120.9	123.1
45°	1045.6	1130.7	615.1	277.9	160.1	116.8	110.8	101.7	98.3	101.1	101.1
47.5°	1145.8	1263.8	766.2	280.1	153.9	109.0	98.3	86.3	83.5	84.5	84.2
50°	1243.4	1363.7	899.0	261.9	143.5	98.9	84.5	74.4	72.5	72.8	72.8
52.5°	1329.8	1397.9	936.7	218.9	129.7	86.7	72.5	65.6	64.4	64.4	64.1
55°	1386.9	1360.9	835.2	167.4	112.4	74.1	62.2	58.7	58.1	57.8	57.1
57.5°	1398.9	1240.3	630.8	120.9	87.9	62.5	55.3	53.4	52.1	50.9	50.2
60°	1356.2	1039.3	401.6	84.5	65.9	53.4	49.0	47.7	45.2	42.7	41.8
62.5°	1263.8	785.0	222.3	58.7	53.1	45.5	43.3	41.8	37.1	33.0	31.7
65°	1139.8	521.9	98.3	45.8	43.3	38.3	37.1	34.9	29.2	24.5	23.5
67.5°	1015.2	300.5	44.3	36.7	34.9	31.4	30.5	28.9	24.8	20.4	19.8
70°	872.9	152.3	30.5	29.2	27.0	23.9	24.8	24.5	20.4	16.6	16.0
72.5°	650.0	75.7	22.9	22.0	19.5	17.0	20.4	20.1	16.0	12.6	11.9
75°	368.0	37.4	16.6	15.4	11.6	12.6	16.3	15.4	11.0	8.2	7.5
77.5°	146.0	19.2	11.0	9.4	6.9	8.5	11.9	10.4	5.7	3.5	3.1
80°	33.6	9.4	5.7	4.1	3.1	5.0	6.3	3.8	1.6	0.3	0.0
82.5°	9.4	4.1	1.9	1.6	1.6	1.9	1.6	0.6	0.0	0.0	0.0
85°	3.1	1.9	0.6	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0
87.5°	1.3	0.6	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)