

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: P883246

Luminaire Tested: **NAV-SB3C-730-U-T2-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P883246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-730-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16147 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

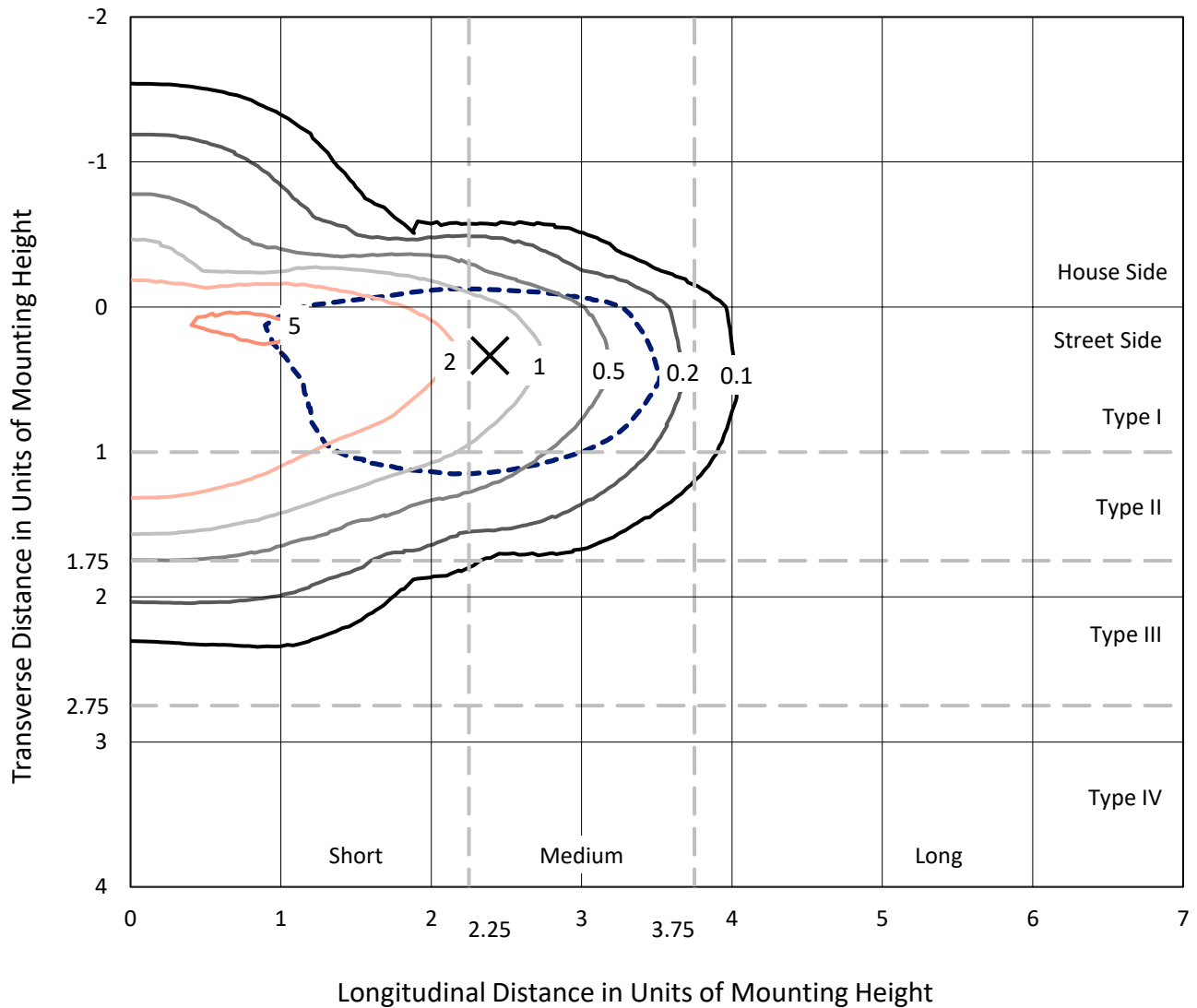
Input Watts (W): 149.1
Input Voltage (V): 120.0
Input Current (Ain): 1.259
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.297
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P883246
 CATALOG NUMBER: NAV-SB3C-730-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

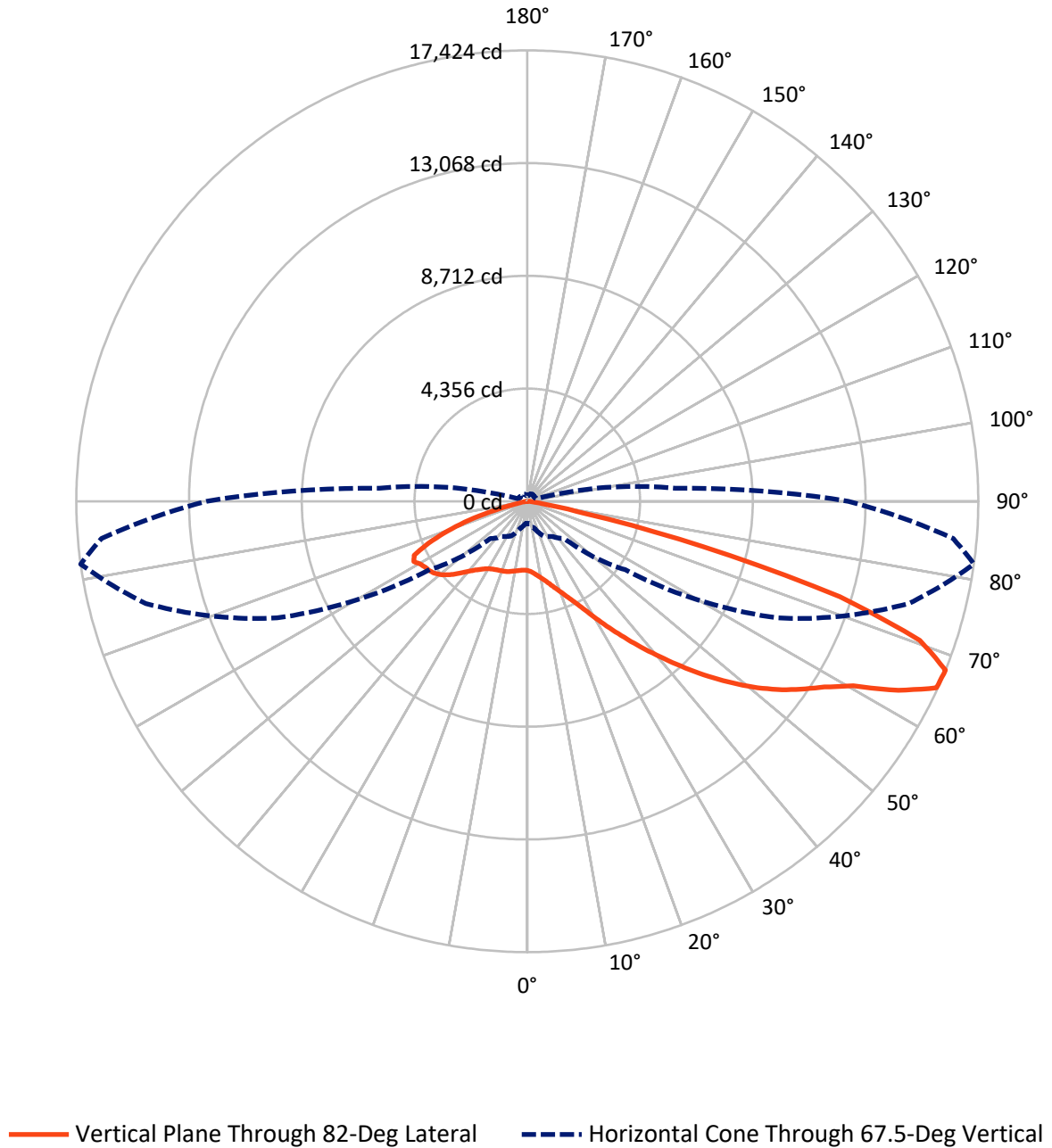
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Medium - N/A

REPORT NUMBER: P883246
CATALOG NUMBER: NAV-SB3C-730-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P883246
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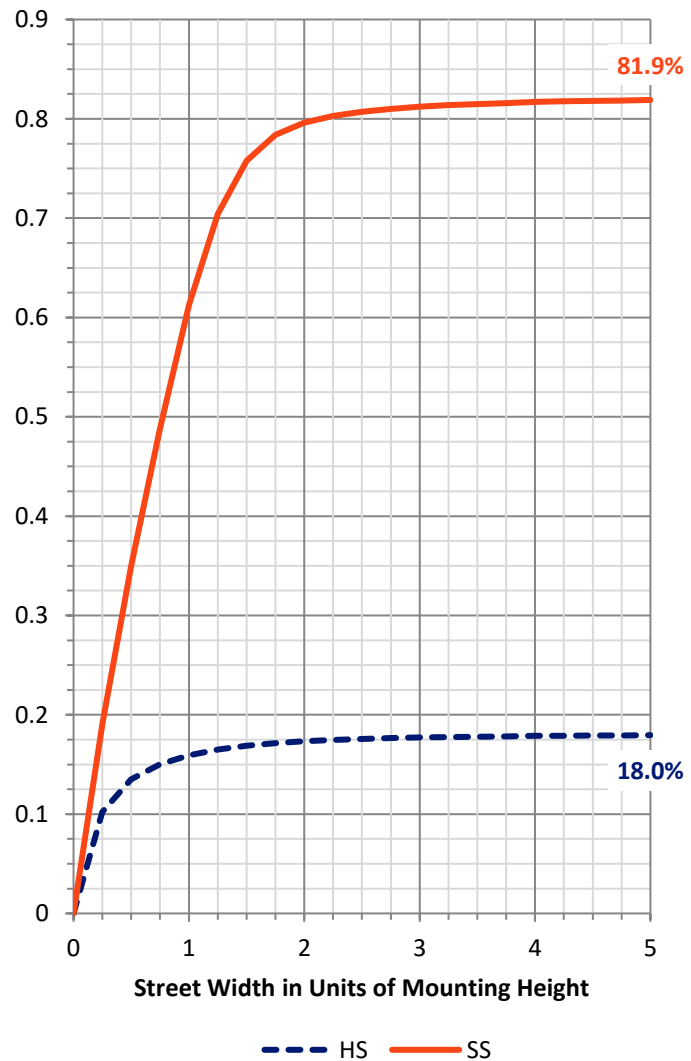
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2924.9	0.0	2924.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13222.1	0.0	13222.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	16147.0	0.0	16147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	1.5
10°-20°	619.3	3.8
20°-30°	991.9	6.1
30°-40°	1754.0	10.9
40°-50°	3073.2	19.0
50°-60°	4098.9	25.4
60°-70°	3815.8	23.6
70°-80°	1464.5	9.1
80°-90°	91.0	0.6
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°	16147.0	100.0
0°-180°	16147.0	100.0

Coefficient of Utilization



REPORT NUMBER: P883246

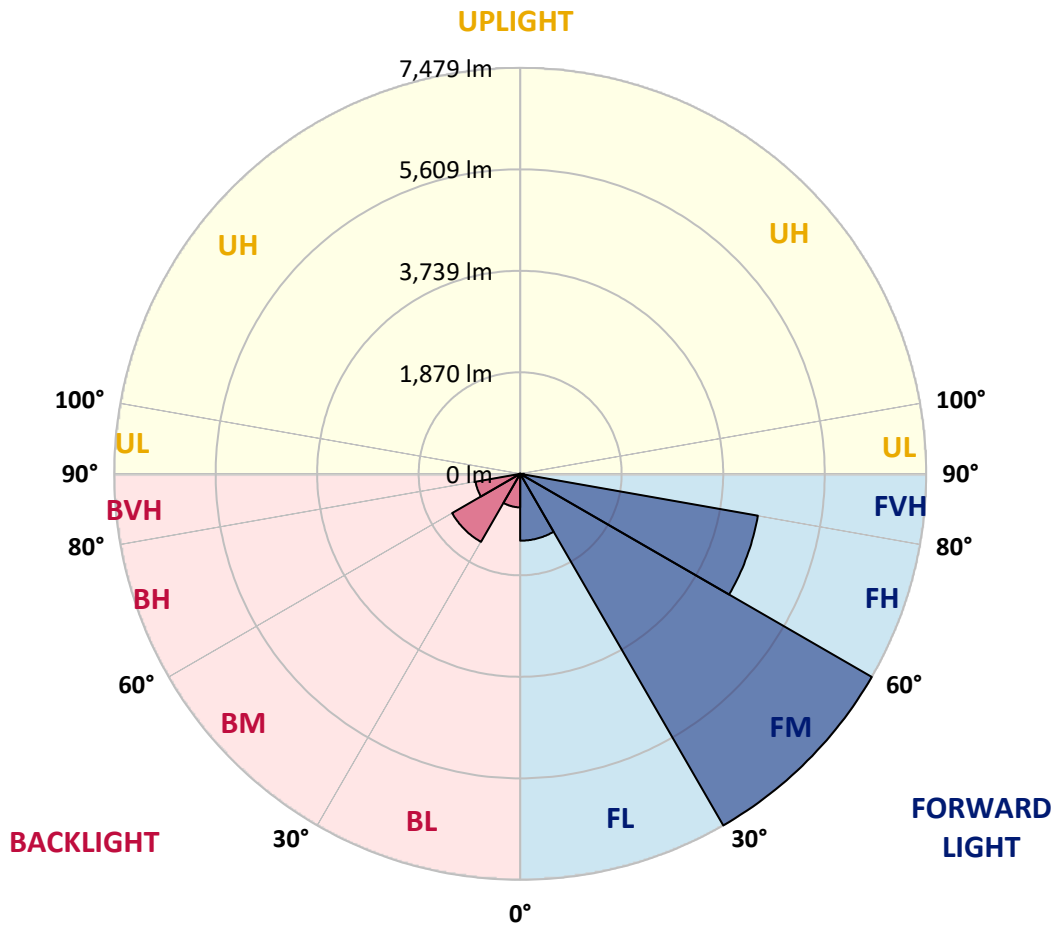
CATALOG NUMBER: NAV-SB3C-730-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1231.8	7.6			
FM (30°-60°)	7478.6	46.3			
FH (60°-80°)	4445.5	27.5			G2/5000
FVH (80°-90°)	66.1	0.4			G1/100
BL (0°-30°)	617.7	3.8	B2/1000		
BM (30°-60°)	1447.5	9.0	B2/2500		
BH (60°-80°)	834.8	5.2	B2/1000		G2/1000
BVH (80°-90°)	24.8	0.2			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 II Medium



REPORT NUMBER: P883246

CATALOG NUMBER: NAV-SB3C-730-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0
2.5°	2827.3	2843.6	2834.3	2829.6	2821.5	2809.9	2800.6	2771.5	2741.3	2721.5	2714.5
5°	2884.3	2900.5	2899.4	2904.0	2909.8	2913.3	2911.0	2878.5	2835.4	2801.7	2782.0
7.5°	2835.4	2854.0	2869.2	2892.4	2933.1	2976.1	2997.0	2990.1	2945.9	2899.4	2875.0
10°	2697.1	2716.9	2752.9	2807.5	2893.6	2986.6	3064.5	3100.5	3072.6	3021.4	2987.7
12.5°	2443.7	2463.4	2534.3	2652.9	2797.1	2958.7	3107.5	3204.0	3210.9	3159.8	3120.3
15°	2158.8	2178.6	2254.2	2403.0	2622.7	2881.9	3130.7	3313.2	3374.9	3330.7	3283.0
17.5°	1982.1	1999.6	2056.5	2176.3	2405.3	2728.5	3122.6	3429.5	3570.2	3535.3	3478.3
20°	1928.7	1943.8	1970.5	2054.2	2244.9	2569.2	3069.1	3538.8	3780.6	3760.8	3696.9
22.5°	1985.6	1999.6	2007.7	2044.9	2164.7	2464.6	3001.7	3650.4	4024.7	4027.0	3949.2
25°	2117.0	2130.9	2121.6	2144.9	2197.2	2432.0	2976.1	3781.8	4331.6	4357.2	4268.9
27.5°	2333.2	2334.4	2312.3	2311.1	2319.3	2480.9	3002.8	3922.4	4718.8	4766.4	4657.1
30°	2766.9	2749.4	2664.5	2572.7	2530.9	2627.3	3077.3	4088.7	5175.6	5260.5	5123.3
32.5°	3435.3	3409.7	3254.0	3034.2	2813.4	2863.3	3210.9	4278.2	5673.2	5826.7	5659.3
35°	4160.7	4153.8	3991.0	3664.3	3278.4	3199.3	3428.3	4526.9	6216.1	6460.3	6261.5
37.5°	4835.0	4831.5	4738.5	4353.7	3884.1	3667.8	3777.1	4852.5	6797.4	7150.8	6916.0
40°	5451.2	5461.6	5368.6	5024.5	4551.4	4268.9	4251.4	5254.7	7443.8	7903.0	7624.0
42.5°	5983.6	5995.2	5901.1	5646.5	5210.5	4933.8	4833.9	5747.6	8075.0	8710.9	8380.8
45°	6345.2	6417.2	6403.3	6199.8	5887.1	5600.0	5533.7	6366.1	8794.6	9567.7	9180.6
47.5°	6447.5	6513.7	6618.4	6646.3	6455.6	6173.1	6252.2	7111.3	9522.4	10425.7	9985.1
50°	6195.2	6256.8	6474.2	6763.7	6896.2	6809.0	6950.8	7909.9	10267.6	11281.3	10774.4
52.5°	5697.6	5760.4	6034.8	6492.8	7033.4	7307.7	7651.9	8697.0	10989.5	12091.6	11522.0
55°	4978.0	5044.3	5396.5	5915.0	6771.8	7513.5	8236.6	9482.9	11651.0	12820.5	12196.2
57.5°	3999.1	4048.0	4414.2	5139.6	6113.8	7308.9	8667.9	10340.8	12274.1	13536.7	12864.7
60°	2606.4	2649.4	3074.9	3884.1	5023.3	6625.3	8753.9	11297.6	13101.9	14467.8	13765.7
62.5°	1733.4	1762.4	2014.7	2608.7	3537.6	5312.8	8250.6	12061.4	14315.6	16088.4	15310.7
65°	1189.3	1218.3	1470.6	1884.5	2285.6	3514.4	6803.2	11960.2	15415.3	17375.4	16455.8
67.5°	848.7	873.1	1087.0	1477.6	1654.3	2041.4	4611.8	10667.5	15257.2	17424.2	16517.4
70°	608.0	622.0	798.7	1150.9	1314.8	1226.5	2564.6	8158.7	13358.8	16089.6	15259.5
72.5°	425.5	430.1	554.5	876.6	1059.1	895.2	1220.7	5439.5	10103.7	12628.7	11830.0
75°	288.3	294.1	373.2	642.9	849.8	683.6	646.4	2916.8	5931.3	6990.4	6266.1
77.5°	176.7	179.0	240.6	439.4	635.9	520.8	416.2	1235.8	2294.9	2253.0	1920.5
80°	100.0	100.0	153.5	273.2	433.6	336.0	291.8	525.5	726.6	638.2	562.7
82.5°	55.8	57.0	111.6	169.7	287.1	198.8	160.4	243.0	313.9	277.8	241.8
85°	23.3	25.6	68.6	80.2	137.2	98.8	65.1	102.3	116.3	103.5	75.6
87.5°	2.3	3.5	20.9	15.1	16.3	19.8	9.3	19.8	16.3	16.3	11.6
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: P883246
 CATALOG NUMBER: NAV-SB3C-730-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0	2675.0
2.5°	2692.4	2675.0	2630.8	2579.7	2512.3	2479.7	2435.5	2405.3	2379.7	2382.1	2358.8
5°	2744.8	2700.6	2601.8	2478.5	2325.1	2215.8	2099.6	2019.3	1954.2	1940.3	1908.9
7.5°	2816.8	2747.1	2573.9	2351.8	2092.6	1896.1	1720.6	1607.8	1527.6	1502.0	1476.4
10°	2909.8	2808.7	2537.8	2192.6	1819.4	1569.4	1381.1	1292.7	1238.1	1219.5	1205.6
12.5°	3018.0	2879.6	2490.2	1998.4	1538.0	1297.4	1177.7	1133.5	1116.0	1110.2	1106.7
15°	3154.0	2968.0	2418.1	1768.2	1299.7	1131.2	1080.0	1074.2	1076.5	1074.2	1073.0
17.5°	3315.6	3064.5	2300.7	1531.1	1139.3	1046.3	1027.7	1032.3	1038.2	1037.0	1034.7
20°	3492.3	3159.8	2150.7	1320.6	1030.0	985.8	975.4	980.0	984.7	982.3	981.2
22.5°	3693.4	3262.1	1984.5	1156.7	956.8	930.0	918.4	919.6	919.6	914.9	912.6
25°	3934.0	3374.9	1810.1	1040.5	901.0	880.0	866.1	861.4	854.5	840.5	838.2
27.5°	4221.2	3494.6	1642.7	959.1	856.8	837.0	820.8	809.1	791.7	768.4	766.1
30°	4544.4	3639.9	1500.8	907.9	821.9	802.2	783.6	766.1	740.5	711.5	709.2
32.5°	4924.5	3795.7	1397.4	874.2	790.5	769.6	747.5	726.6	698.7	669.6	670.8
35°	5377.9	3984.0	1336.9	851.0	766.1	738.2	713.8	690.6	669.6	644.0	641.7
37.5°	5869.7	4184.0	1318.3	839.4	749.8	706.8	678.9	662.6	660.3	645.2	644.0
40°	6407.9	4421.2	1332.3	832.4	732.4	676.6	646.4	642.9	648.7	622.0	623.1
42.5°	6977.6	4702.5	1355.5	824.2	708.0	646.4	617.3	617.3	612.7	575.5	575.5
45°	7593.7	5026.8	1378.8	804.5	678.9	616.1	594.1	585.9	566.2	530.1	529.0
47.5°	8214.5	5357.0	1396.2	768.4	644.0	590.6	570.8	552.2	523.1	490.6	489.4
50°	8803.9	5653.4	1377.6	715.0	604.5	566.2	545.2	519.7	488.3	466.2	462.7
52.5°	9330.6	5910.4	1298.6	652.2	562.7	540.6	522.0	495.2	469.7	446.4	444.1
55°	9788.6	6118.5	1159.1	592.9	525.5	518.5	499.9	466.2	431.3	411.5	409.2
57.5°	10228.1	6276.6	984.7	544.1	491.8	494.1	466.2	436.0	403.4	382.5	380.2
60°	10812.8	6488.2	808.0	498.7	455.7	462.7	432.5	410.4	369.7	343.0	339.5
62.5°	11747.5	6817.2	641.7	442.9	413.9	416.2	403.4	376.7	327.8	296.4	294.1
65°	12489.2	6696.2	505.7	382.5	366.2	369.7	369.7	340.6	288.3	252.3	248.8
67.5°	12405.5	5733.7	403.4	323.2	320.9	323.2	331.3	306.9	255.8	226.7	222.0
70°	11427.8	4560.7	323.2	268.5	279.0	273.2	296.4	280.2	230.2	201.1	197.6
72.5°	9324.8	3285.3	246.5	222.0	213.9	223.2	267.4	252.3	191.8	159.3	155.8
75°	5448.8	1753.1	183.7	175.5	154.6	186.0	237.2	215.1	146.5	117.4	113.9
77.5°	1774.0	611.5	134.9	129.0	115.1	150.0	202.3	181.4	119.7	93.0	89.5
80°	475.5	184.8	91.8	84.9	74.4	111.6	160.4	144.2	86.0	60.5	59.3
82.5°	190.7	77.9	53.5	47.7	40.7	76.7	126.7	116.3	63.9	38.4	38.4
85°	61.6	25.6	19.8	15.1	18.6	47.7	75.6	79.1	45.3	19.8	15.1
87.5°	8.1	3.5	3.5	4.7	3.5	8.1	23.3	22.1	12.8	2.3	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)