

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: P965055

Luminaire Tested: **NAV-SB3D-730-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P965055  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3D-730-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30586 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

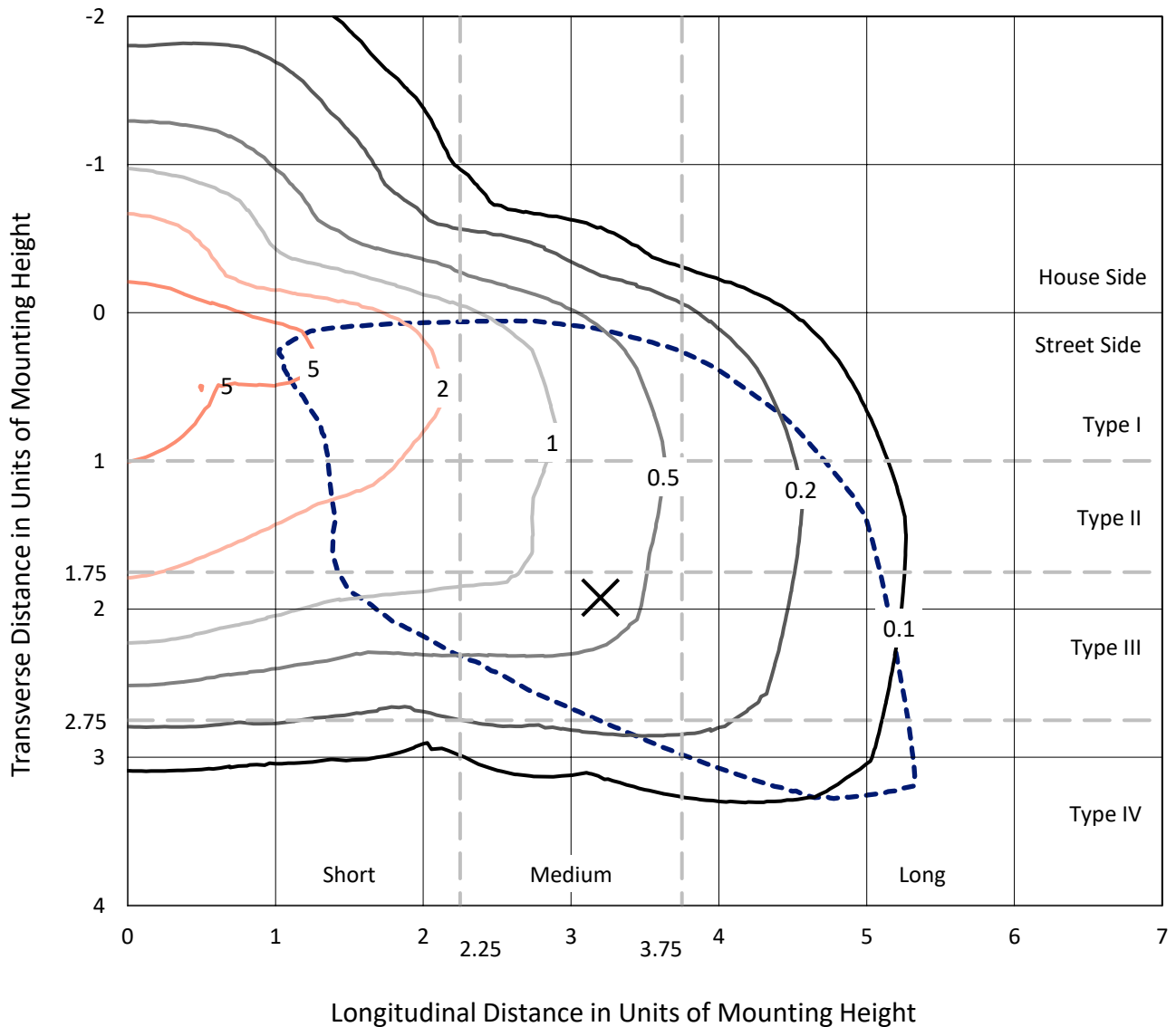
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P965055  
 CATALOG NUMBER: NAV-SB3D-730-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

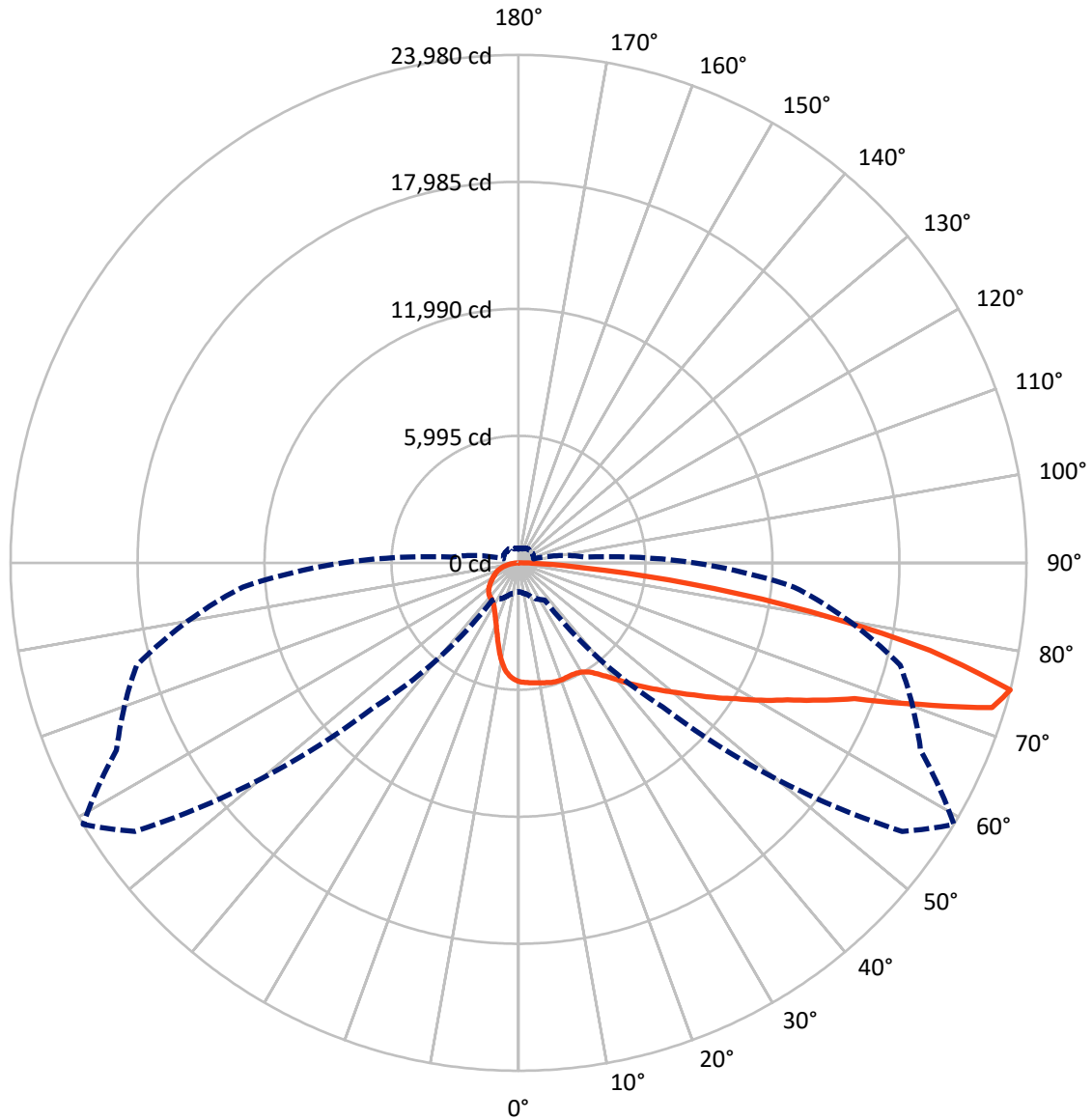
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P965055  
CATALOG NUMBER: NAV-SB3D-730-U-SL3

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P965055  
 CATALOG NUMBER: NAV-SB3D-730-U-SL3

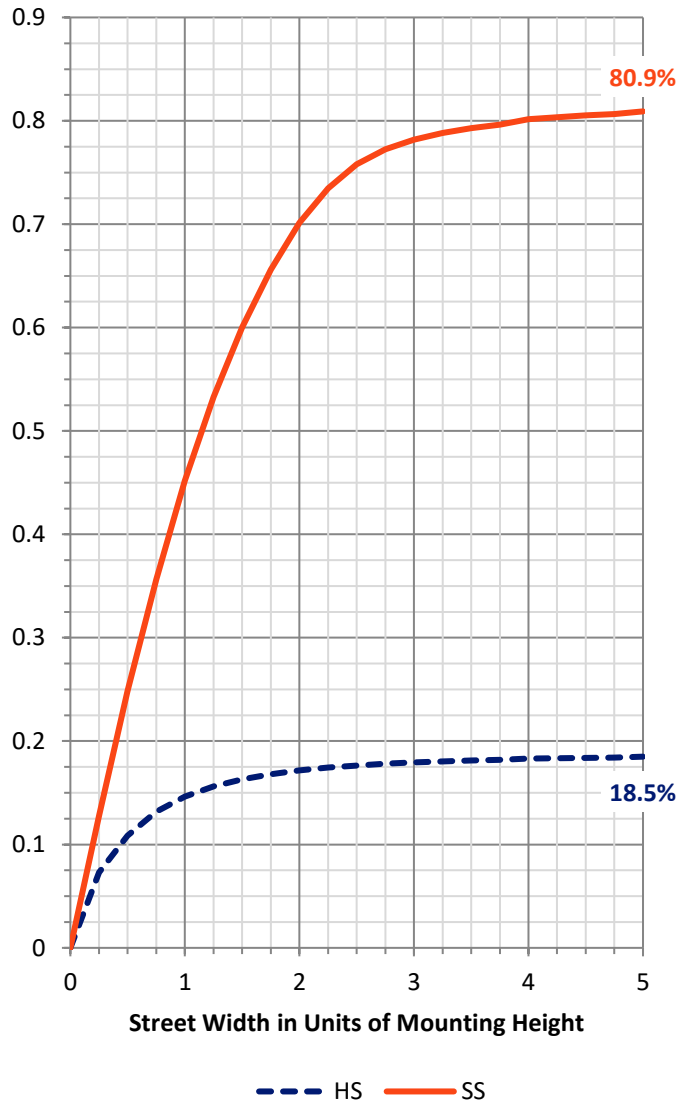
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5736.6	0.0	5736.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	24849.4	0.0	24849.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	30586.0	0.0	30586.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	503.4	1.6
10°-20°	1286.7	4.2
20°-30°	1954.4	6.4
30°-40°	2905.1	9.5
40°-50°	4320.4	14.1
50°-60°	5864.5	19.2
60°-70°	7159.5	23.4
70°-80°	5618.7	18.4
80°-90°	973.3	3.2
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°	30586.0	100.0
0°-180°	30586.0	100.0

**Coefficient of Utilization**

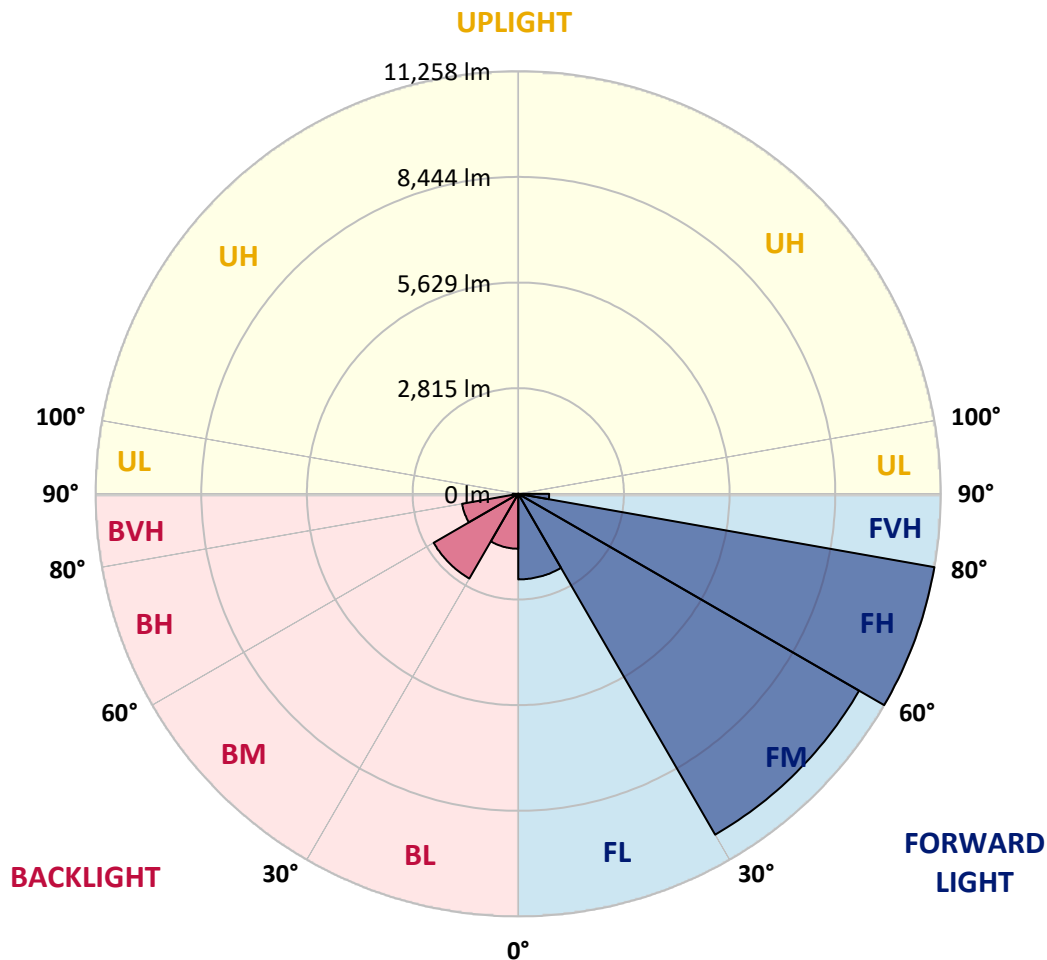


REPORT NUMBER: P965055  
 CATALOG NUMBER: NAV-SB3D-730-U-SL3

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2280.5	7.5			
FM (30°-60°)	10486.2	34.3			
FH (60°-80°)	11258.4	36.8			G4/12000
FVH (80°-90°)	824.3	2.7			G5
BL (0°-30°)	1463.9	4.8	B3/2500		
BM (30°-60°)	2603.8	8.5	B3/5000		
BH (60°-80°)	1519.8	5.0	B3/2500		G3/2500
BVH (80°-90°)	149.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Medium



REPORT NUMBER: P965055  
 CATALOG NUMBER: NAV-SB3D-730-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0
2.5°	5661.7	5642.0	5661.7	5653.5	5650.2	5643.6	5645.3	5656.8	5650.2	5658.4	5630.4
5°	5623.9	5612.4	5632.1	5627.1	5648.6	5651.8	5673.3	5686.4	5694.6	5696.2	5674.9
7.5°	5561.3	5549.9	5577.8	5600.8	5646.9	5660.0	5704.5	5725.9	5737.4	5757.1	5725.9
10°	5332.7	5327.7	5396.8	5484.1	5592.6	5660.0	5727.5	5763.7	5781.8	5834.5	5798.3
12.5°	4927.9	4934.5	5025.0	5192.8	5410.0	5627.1	5753.8	5806.5	5834.5	5900.3	5883.8
15°	4541.3	4539.5	4638.3	4817.6	5122.0	5482.3	5767.1	5857.5	5905.2	6002.3	5989.2
17.5°	4317.4	4310.8	4379.9	4516.6	4799.6	5260.2	5734.1	5885.4	5987.5	6109.2	6097.7
20°	4276.3	4263.2	4299.4	4366.8	4567.5	5016.8	5648.6	5885.4	6053.3	6211.3	6204.6
22.5°	4426.1	4404.6	4389.9	4381.6	4470.4	4816.0	5551.5	5865.8	6150.4	6357.7	6346.2
25°	4727.1	4694.2	4618.5	4544.5	4518.2	4725.5	5465.9	5860.8	6295.1	6555.2	6512.3
27.5°	5214.2	5173.1	5020.0	4842.3	4682.7	4771.6	5428.1	5890.4	6454.7	6764.1	6678.6
30°	5818.0	5773.6	5581.1	5308.0	5021.7	4942.7	5475.8	5977.6	6658.8	7042.2	6874.4
32.5°	6359.3	6310.0	6145.5	5867.4	5480.7	5238.9	5627.1	6143.8	6979.6	7428.8	7168.8
35°	6839.8	6782.2	6634.1	6377.4	6043.4	5655.1	5900.3	6438.3	7435.5	8057.3	7568.7
37.5°	7310.4	7242.9	7081.6	6810.2	6576.5	6209.7	6277.1	6816.8	8040.9	8820.8	8098.5
40°	7836.8	7739.8	7544.0	7275.9	7048.7	6859.5	6772.4	7280.8	8656.2	9673.1	8760.0
42.5°	8347.0	8254.8	8021.1	7792.5	7507.8	7453.5	7346.6	7823.7	9329.2	10609.4	9431.2
45°	8896.5	8786.3	8503.3	8213.6	8034.4	7848.4	7902.6	8366.7	9989.0	11563.6	10135.5
47.5°	9411.6	9288.1	8954.1	8631.6	8532.9	8180.7	8412.8	8963.9	10675.2	12531.1	10833.1
50°	9689.5	9567.8	9289.8	8998.5	8921.2	8590.4	8965.6	9620.4	11394.2	13495.3	11502.8
52.5°	9921.6	9790.0	9426.3	9265.1	9242.0	9036.4	9646.8	10370.7	12113.1	14347.6	12149.4
55°	10168.4	10021.9	9557.9	9413.2	9518.5	9536.5	10454.7	11221.4	12873.4	15178.5	12759.8
57.5°	10453.1	10267.1	9684.6	9538.2	9788.2	10122.3	11382.6	12103.3	13620.3	15948.6	13302.8
60°	10721.2	10533.6	9928.2	9737.3	10079.5	10801.9	12447.2	13171.1	14466.0	16634.6	13816.2
62.5°	10773.9	10619.2	10122.3	10120.6	10474.4	11594.9	13707.5	14248.8	15204.8	17312.6	14276.8
65°	9862.3	9765.3	9470.7	10105.9	11040.4	12736.8	15111.1	15627.7	16144.4	17904.9	14681.6
67.5°	7506.2	7519.3	7498.0	8723.8	10583.0	14377.3	17143.1	17103.6	17304.4	18569.6	15147.2
70°	3432.2	3509.6	4013.1	6022.1	8478.6	14566.5	20502.9	19991.2	18760.5	19430.1	15550.4
72.5°	1854.3	1913.6	2119.2	2917.3	5097.3	12950.7	23013.7	23377.4	20697.1	20009.3	15107.8
75°	1360.7	1393.6	1536.8	1854.3	2140.6	9625.4	22113.8	23979.6	20938.9	18658.5	13046.1
77.5°	1018.4	1033.3	1150.2	1469.3	1095.8	5074.3	17669.6	19859.6	17924.6	15329.9	9636.9
80°	738.8	755.2	842.4	1102.4	768.3	1856.0	12132.9	13939.6	12276.1	9771.8	4802.8
82.5°	510.0	516.6	554.5	750.3	536.4	720.7	6884.2	8174.2	6852.9	3428.9	1296.5
85°	307.7	315.9	332.4	437.7	304.4	342.2	2971.6	3073.6	2048.5	819.4	403.1
87.5°	126.7	134.9	148.1	184.3	120.1	95.4	490.4	615.4	383.3	240.3	125.0
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: P965055  
 CATALOG NUMBER: NAV-SB3D-730-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0	5614.0
2.5°	5622.2	5610.7	5579.5	5536.6	5497.2	5447.8	5426.5	5408.3	5391.9	5360.6	5345.8
5°	5656.8	5625.5	5541.6	5433.0	5309.6	5174.7	5043.0	4952.6	4875.2	4817.6	4769.9
7.5°	5709.5	5650.2	5497.2	5275.1	4992.1	4702.5	4440.8	4254.9	4115.1	4064.0	3975.3
10°	5763.7	5693.0	5426.5	5034.8	4546.2	4100.2	3753.0	3562.2	3450.4	3414.2	3358.2
12.5°	5827.8	5724.2	5316.2	4700.9	4047.6	3558.9	3256.2	3144.3	3086.7	3067.0	3071.9
15°	5921.6	5750.6	5150.0	4282.9	3572.1	3164.1	2968.2	2890.9	2861.3	2859.6	2866.2
17.5°	5992.5	5755.5	4891.7	3835.3	3206.8	2925.5	2764.2	2734.6	2754.4	2784.0	2795.5
20°	6071.4	5711.1	4552.7	3427.3	2950.2	2716.5	2649.0	2668.8	2716.5	2759.3	2774.1
22.5°	6127.3	5630.4	4143.0	3109.7	2728.0	2596.4	2593.1	2634.2	2660.6	2681.9	2693.5
25°	6176.8	5493.9	3708.7	2843.1	2545.4	2524.0	2560.1	2547.0	2528.9	2547.0	2558.5
27.5°	6212.9	5278.3	3320.4	2609.5	2417.1	2474.7	2453.2	2423.6	2422.0	2431.8	2448.3
30°	6201.4	4990.4	3001.2	2387.4	2326.5	2382.5	2331.5	2326.5	2321.6	2326.5	2344.7
32.5°	6201.4	4662.9	2756.0	2234.4	2268.9	2247.6	2242.6	2231.1	2211.3	2209.7	2231.1
35°	6235.9	4335.5	2545.4	2152.1	2221.3	2170.2	2173.5	2145.5	2104.4	2084.6	2104.4
37.5°	6306.7	4072.3	2336.4	2112.6	2137.3	2135.7	2122.6	2074.8	2002.4	1939.9	1961.2
40°	6477.8	3994.9	2193.3	2094.6	2097.9	2117.5	2083.0	1990.9	1826.3	1724.4	1737.5
42.5°	6746.0	4124.9	2162.0	2050.1	2071.5	2091.3	2023.8	1809.9	1693.1	1632.2	1632.2
45°	7086.6	4351.9	2229.5	1985.9	2009.0	2043.5	1842.8	1740.8	1688.2	1689.8	1698.0
47.5°	7517.7	4590.6	2354.5	1930.0	1918.5	1938.3	1722.7	1660.2	1587.8	1605.9	1652.0
50°	8016.2	4832.5	2473.0	1854.3	1818.1	1754.0	1645.3	1586.1	1494.0	1451.2	1462.8
52.5°	8555.9	5066.1	2520.7	1762.2	1709.5	1635.5	1592.7	1520.3	1408.5	1337.7	1336.1
55°	9067.7	5278.3	2468.1	1652.0	1600.9	1543.3	1536.8	1492.3	1372.3	1273.6	1273.6
57.5°	9551.4	5456.1	2336.4	1540.1	1490.7	1456.1	1500.6	1479.2	1327.8	1201.1	1194.5
60°	9961.1	5577.8	2145.5	1426.5	1391.9	1373.9	1441.4	1434.8	1265.3	1123.8	1118.9
62.5°	10286.8	5625.5	1935.0	1317.9	1309.7	1276.8	1359.0	1359.0	1186.3	1048.1	1043.1
65°	10541.8	5579.5	1721.1	1211.0	1227.4	1178.0	1258.7	1248.9	1102.4	980.6	974.1
67.5°	10767.3	5428.1	1484.1	1105.7	1143.5	1081.0	1153.4	1130.4	1010.2	913.2	906.6
70°	10867.7	5076.0	1214.3	1000.4	1046.4	985.5	1048.1	1005.3	906.6	840.8	827.6
72.5°	10061.4	4218.7	955.9	890.1	929.7	880.3	934.6	885.2	794.7	765.1	740.5
75°	8323.9	3165.7	735.4	770.1	799.6	761.8	798.0	761.8	679.6	700.9	640.0
77.5°	6045.0	2137.3	562.7	643.3	656.5	636.7	668.0	626.9	552.9	547.9	523.3
80°	3006.1	1252.1	441.0	508.4	503.5	490.4	526.5	506.8	444.2	470.6	465.7
82.5°	870.4	536.4	320.8	357.0	347.2	350.4	376.8	386.6	579.1	574.2	587.4
85°	273.2	210.6	192.5	199.1	189.2	194.1	222.1	441.0	408.1	238.6	258.3
87.5°	70.7	72.4	47.8	51.0	52.7	62.5	70.7	268.2	128.3	83.9	88.9
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)