

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: P969982

Luminaire Tested: **NAV-SB6A-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6A-830-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24901.4 lumens
Efficiency: N/A
Efficacy: 145.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 170.9
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



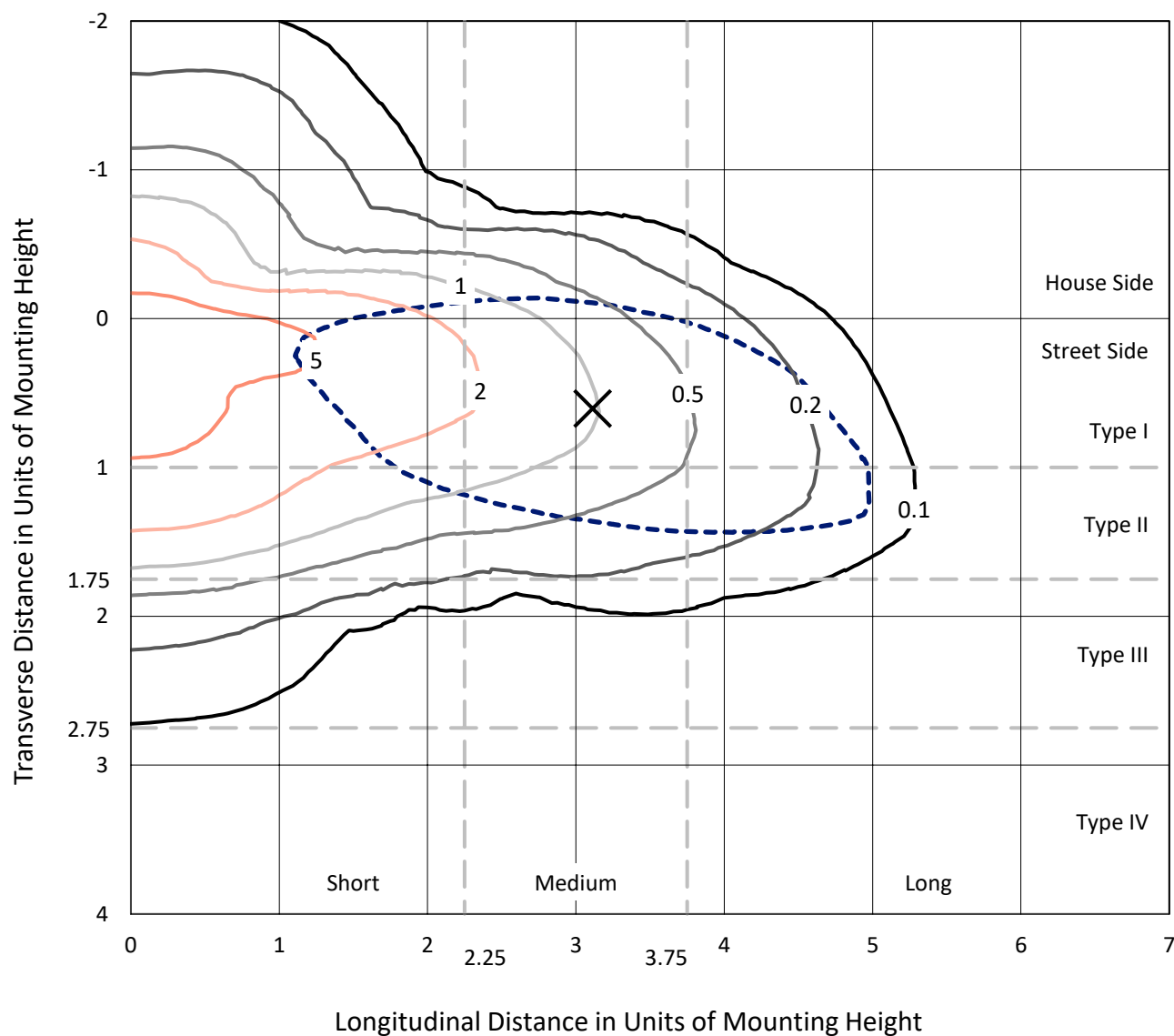
REPORT NUMBER: P969982

CATALOG NUMBER: NAV-SB6A-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

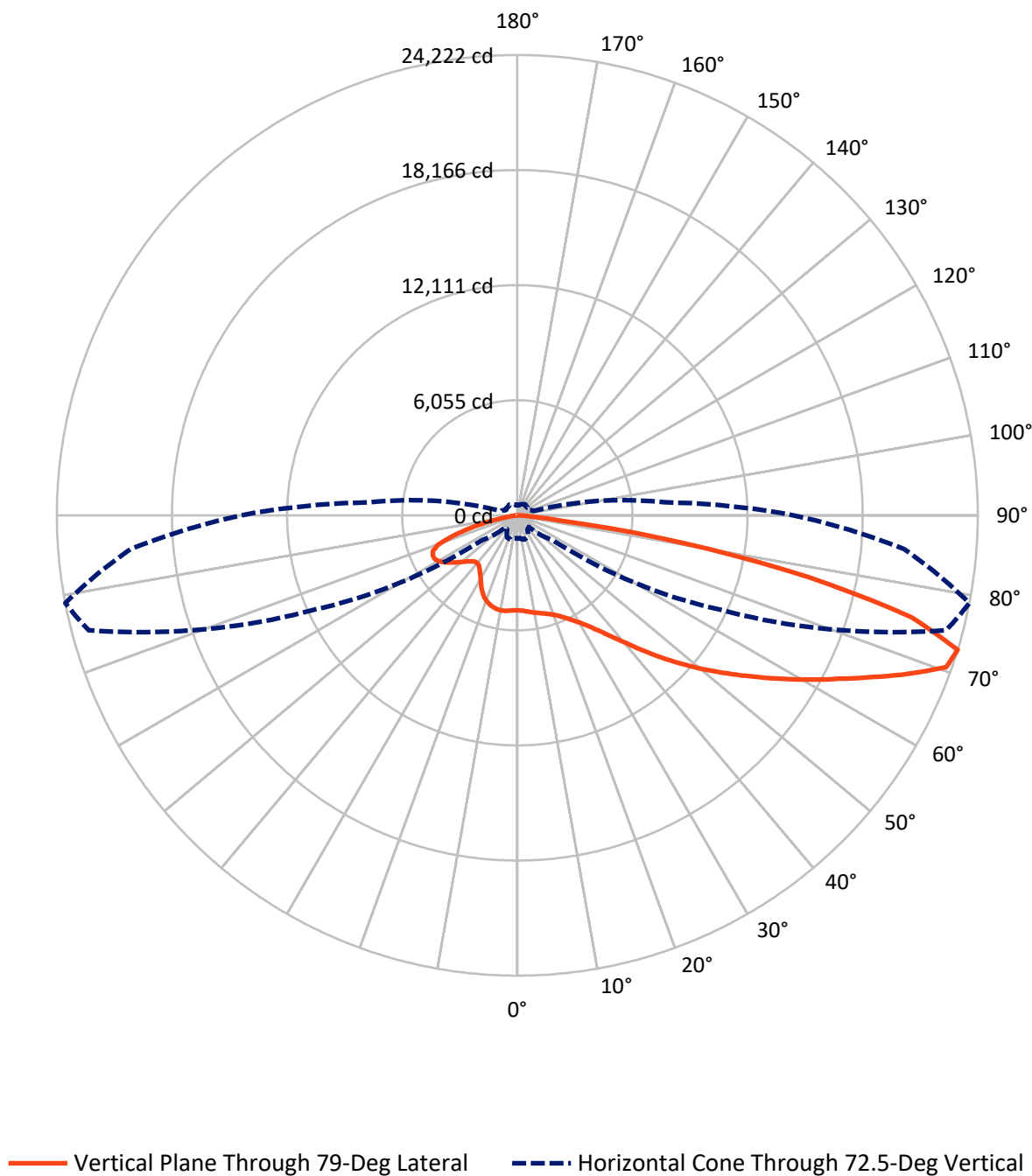
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
Type II - Medium - N/A

REPORT NUMBER: P969982
CATALOG NUMBER: NAV-SB6A-830-U-SL2

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5479.7	0.0	5479.7
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	19421.7	0.0	19421.7
	% Fixture	78.0	0.0	78.0
Total	Lumens	24901.4	0.0	24901.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	453.7	1.8
10°-20°	1186.3	4.8
20°-30°	1914.2	7.7
30°-40°	2872.9	11.5
40°-50°	4075.4	16.4
50°-60°	5146.7	20.7
60°-70°	5227.2	21.0
70°-80°	3562.6	14.3
80°-90°	462.2	1.9
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°	24901.4	100.0
0°-180°	24901.4	100.0

Coefficient of Utilization



REPORT NUMBER: P969982

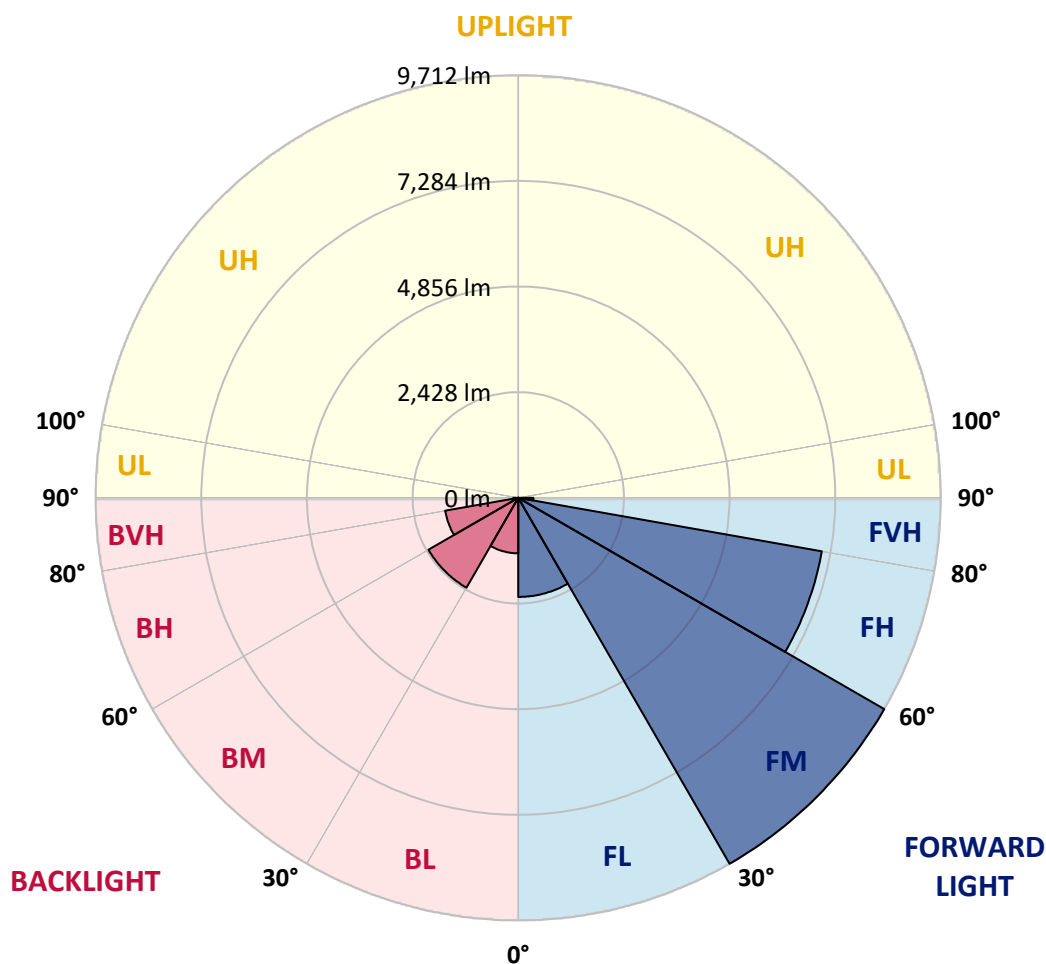
CATALOG NUMBER: NAV-SB6A-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2277.9	9.1			
FM	(30°-60°)	9712.0	39.0			
FH	(60°-80°)	7083.6	28.4			G3/7500
FVH	(80°-90°)	348.2	1.4			G3/500
BL	(0°-30°)	1276.4	5.1	B3/2500		
BM	(30°-60°)	2383.1	9.6	B2/2500		
BH	(60°-80°)	1706.2	6.9	B3/2500		G3/2500
BVH	(80°-90°)	114.0	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-G3

Type II Medium



REPORT NUMBER: P969982

CATALOG NUMBER: NAV-SB6A-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7
2.5°	5001.4	4977.6	4992.2	4986.8	4993.4	5001.4	5003.9	5007.9	5021.1	5019.8	5018.5
5°	4990.8	4967.0	4986.8	4980.3	4997.4	5015.8	5031.6	5046.2	5067.2	5076.4	5063.3
7.5°	4968.4	4952.6	4972.4	4992.2	5023.7	5051.4	5073.8	5106.8	5137.0	5142.3	5151.5
10°	4838.0	4826.1	4872.2	4923.6	5010.6	5085.6	5134.4	5172.6	5205.5	5210.8	5223.9
12.5°	4702.4	4687.8	4739.2	4809.0	4949.9	5085.6	5188.3	5238.5	5267.4	5284.5	5304.3
15°	4679.9	4668.1	4697.1	4757.6	4874.9	5050.1	5225.2	5317.5	5342.5	5362.3	5370.2
17.5°	4788.0	4765.5	4777.4	4798.5	4867.0	5017.2	5254.3	5407.1	5445.2	5466.3	5466.3
20°	5038.2	5006.6	4988.2	4946.0	4934.1	5022.4	5251.6	5515.0	5565.1	5591.5	5598.0
22.5°	5371.5	5350.4	5310.8	5204.2	5088.3	5087.0	5301.7	5653.4	5746.9	5771.9	5756.1
25°	5774.5	5742.9	5692.8	5548.0	5325.4	5214.7	5386.0	5829.9	5986.6	5993.2	5947.0
27.5°	6238.2	6190.8	6122.2	5931.3	5630.9	5415.0	5515.0	6032.7	6261.9	6259.3	6164.5
30°	6726.9	6679.4	6606.9	6375.2	5997.2	5685.0	5694.2	6251.4	6588.6	6574.0	6412.1
32.5°	7083.8	7048.2	7033.8	6854.6	6418.7	6003.7	5899.7	6493.7	6991.6	6978.4	6751.9
35°	7357.8	7311.6	7328.9	7237.9	6878.4	6360.6	6151.2	6782.2	7481.6	7480.2	7198.4
37.5°	7629.1	7588.3	7602.7	7542.2	7303.7	6813.8	6458.1	7135.2	8088.8	8117.8	7738.4
40°	7876.7	7833.3	7891.3	7834.6	7634.4	7295.8	6807.2	7534.3	8792.2	8847.5	8391.8
42.5°	8025.5	7991.3	8087.5	8088.8	7921.5	7702.9	7190.5	7974.2	9606.2	9730.0	9195.3
45°	8077.0	8065.1	8210.0	8240.3	8175.7	7938.6	7535.6	8453.7	10483.5	10704.8	10110.7
47.5°	8021.6	7999.2	8199.5	8311.4	8362.8	8049.3	7821.5	8972.6	11379.1	11703.1	11109.2
50°	7742.4	7699.0	7996.6	8232.4	8415.5	8121.8	8109.9	9572.0	12397.4	12751.6	12112.8
52.5°	7240.6	7207.6	7546.2	7955.7	8299.5	8157.4	8433.9	10226.6	13364.2	13822.5	13141.5
55°	6599.1	6555.6	6928.4	7463.1	8011.1	8145.5	8757.9	10959.0	14504.8	14969.8	14204.4
57.5°	5582.3	5495.3	5966.8	6599.1	7540.8	8131.0	9095.1	11687.4	15663.9	16221.1	15338.6
60°	4099.1	3970.0	4548.2	5297.7	6621.5	7990.1	9512.7	12504.0	17054.9	17556.7	16576.7
62.5°	2386.7	2311.7	2689.7	3389.2	4990.8	7160.2	9747.1	13453.7	18422.1	18949.0	17793.8
65°	1853.3	1832.2	1865.1	1919.1	2778.0	5361.0	9024.0	14379.7	20160.8	20529.6	19062.2
67.5°	1695.2	1679.4	1693.9	1592.4	1409.4	2986.0	7139.1	14614.1	22023.3	22247.2	20172.6
70°	1506.9	1488.4	1535.9	1448.9	1109.0	1358.0	4612.8	13763.3	23505.1	23925.3	21017.0
72.5°	1227.6	1206.5	1317.2	1277.7	933.9	872.0	2316.9	11741.4	23349.7	24221.7	20412.4
75°	943.1	931.2	1062.9	1095.9	761.4	686.2	1111.7	8727.7	20548.1	21426.6	17592.3
77.5°	732.4	723.1	790.3	910.2	613.8	532.2	683.6	5536.1	15484.8	15638.9	12123.4
80°	549.3	523.0	584.9	704.7	478.2	388.6	463.6	3228.4	9788.0	8872.5	5276.6
82.5°	343.8	330.6	382.0	470.3	337.2	267.4	301.7	1783.5	3922.6	2310.4	1018.1
85°	196.3	191.0	208.1	268.8	183.1	154.2	172.5	787.7	716.6	492.6	306.9
87.5°	79.0	76.4	94.8	119.8	67.1	56.7	60.6	189.6	158.1	146.2	101.4
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: P969982

CATALOG NUMBER: NAV-SB6A-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7	4998.7
2.5°	5013.2	5013.2	4994.7	4965.8	4932.8	4911.8	4877.6	4868.3	4832.8	4822.2	4839.3
5°	5073.8	5063.3	5006.6	4924.9	4813.0	4710.3	4596.9	4525.9	4425.7	4390.2	4416.5
7.5°	5150.2	5121.2	5023.7	4844.6	4610.1	4379.6	4139.9	3958.1	3784.3	3722.4	3730.3
10°	5220.0	5179.1	5013.2	4699.7	4294.0	3894.9	3512.9	3245.6	3042.7	2959.7	2978.1
12.5°	5289.8	5214.7	4943.4	4458.6	3844.9	3303.5	2896.4	2688.4	2563.2	2463.2	2496.1
15°	5355.6	5250.3	4835.3	4136.0	3352.3	2803.0	2502.6	2336.7	2236.5	2170.7	2182.5
17.5°	5432.1	5280.6	4673.4	3726.3	2883.3	2456.5	2211.5	2111.4	2091.7	2083.8	2089.1
20°	5538.8	5308.3	4460.0	3267.9	2538.2	2180.0	2053.5	2044.3	2042.9	2039.0	2052.2
22.5°	5653.4	5341.2	4178.1	2851.7	2244.4	2007.4	1985.0	1966.6	1954.7	1953.3	1967.9
25°	5789.0	5351.7	3825.1	2510.5	1994.2	1925.8	1899.4	1871.8	1863.9	1863.9	1871.8
27.5°	5920.7	5316.2	3414.2	2214.2	1853.3	1850.6	1816.4	1807.2	1805.8	1809.8	1820.3
30°	6052.4	5249.0	3005.8	1940.2	1771.6	1771.6	1759.7	1766.4	1771.6	1784.8	1794.0
32.5°	6230.3	5177.9	2664.7	1737.4	1700.5	1687.4	1699.1	1712.4	1717.6	1734.7	1749.3
35°	6491.1	5127.8	2393.3	1626.7	1626.7	1609.6	1616.2	1613.6	1601.7	1593.8	1612.2
37.5°	6836.1	5125.2	2169.4	1575.3	1564.8	1562.2	1563.5	1546.4	1500.3	1444.9	1446.3
40°	7251.1	5196.2	1996.8	1539.8	1531.9	1547.6	1539.8	1493.7	1367.2	1271.1	1268.4
42.5°	7808.2	5399.1	1886.2	1496.3	1520.1	1539.8	1508.2	1348.8	1263.2	1198.6	1196.0
45°	8464.2	5728.4	1829.5	1450.2	1497.6	1521.3	1368.6	1298.8	1230.2	1152.5	1147.3
47.5°	9207.1	6143.3	1816.4	1406.7	1447.6	1462.1	1309.2	1277.7	1200.0	1115.6	1109.0
50°	10015.9	6634.6	1852.0	1355.4	1375.1	1325.1	1289.6	1260.5	1180.2	1097.3	1088.0
52.5°	10852.3	7176.0	1923.1	1285.6	1302.7	1247.3	1281.7	1256.5	1168.3	1056.4	1048.5
55°	11674.2	7721.3	1991.6	1203.9	1229.0	1177.5	1259.2	1240.8	1114.4	987.9	981.3
57.5°	12509.3	8264.0	2058.7	1131.5	1157.8	1110.4	1223.6	1198.6	1053.7	924.7	922.0
60°	13377.3	8790.9	2090.4	1061.7	1080.0	1048.5	1169.6	1126.2	985.2	860.1	856.2
62.5°	14190.0	9229.5	2039.0	991.8	1003.7	990.6	1098.5	1040.6	916.8	787.7	786.4
65°	15005.4	9490.3	1881.0	923.3	926.0	919.4	998.5	948.3	836.4	724.5	716.6
67.5°	15744.3	9636.5	1629.3	849.6	843.0	840.4	904.9	848.3	758.7	661.2	653.3
70°	15901.0	9265.1	1244.8	762.6	762.6	756.0	802.2	744.3	673.1	594.1	591.4
72.5°	14523.2	7793.8	883.9	663.9	674.3	661.2	699.5	650.7	586.2	533.4	517.6
75°	11711.0	5715.3	642.8	562.4	580.9	558.5	594.1	559.8	504.5	503.2	453.2
77.5°	8046.7	3534.0	466.3	463.6	476.8	447.8	488.7	470.3	420.1	397.8	372.8
80°	3433.9	1409.4	339.8	358.2	358.2	331.9	379.4	384.6	341.1	330.6	330.6
82.5°	683.6	400.5	238.4	246.3	231.9	224.0	268.8	297.7	410.9	457.0	458.4
85°	205.5	147.5	143.6	134.4	118.6	119.8	158.1	299.0	368.8	210.7	181.7
87.5°	56.7	36.9	38.2	30.3	25.0	32.9	54.0	226.5	123.8	52.7	44.8
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)