

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: P971573

Luminaire Tested: **NAV-SB6D-830-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971573
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41501.2 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 440.1
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



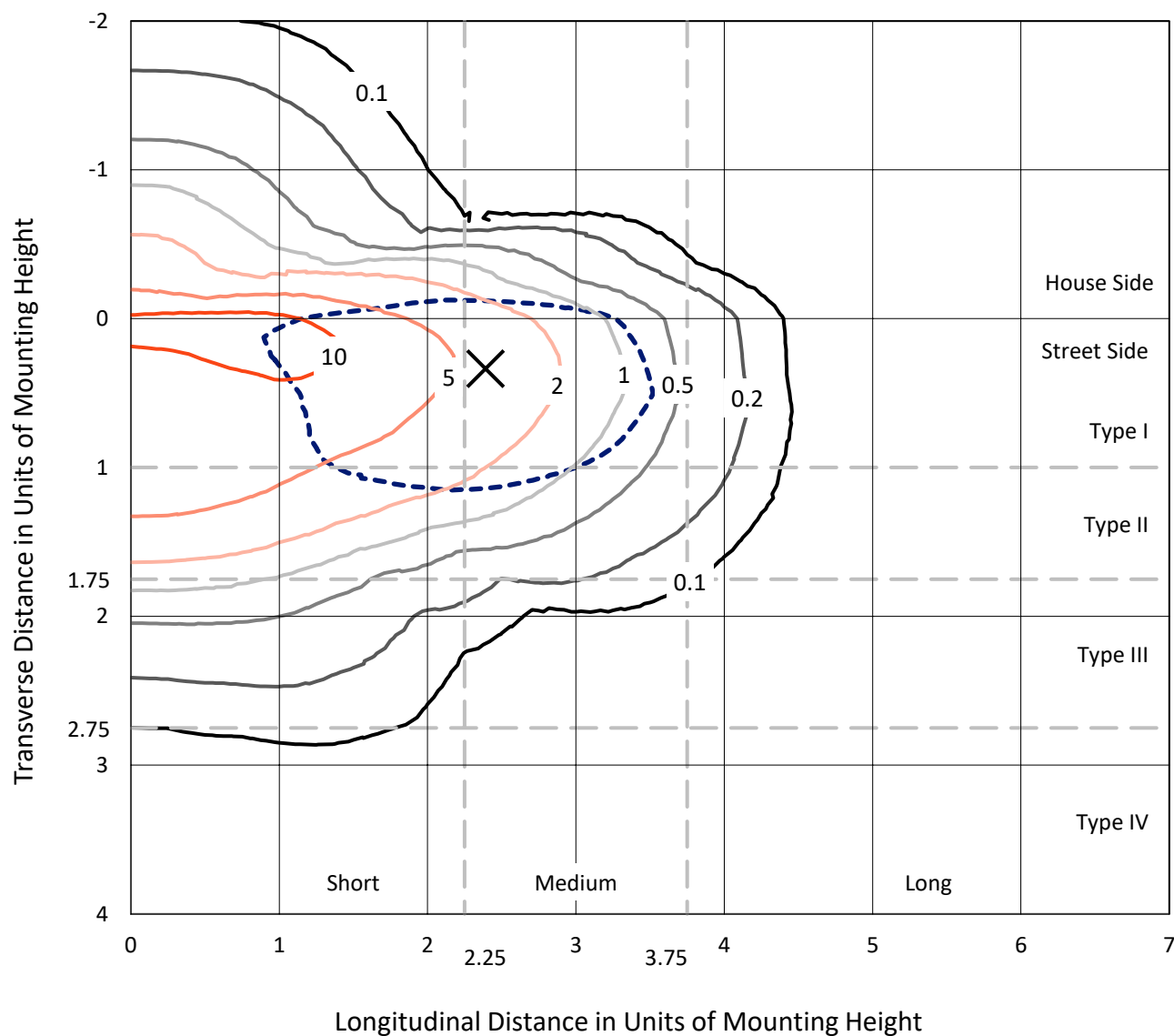
REPORT NUMBER: P971573

CATALOG NUMBER: NAV-SB6D-830-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

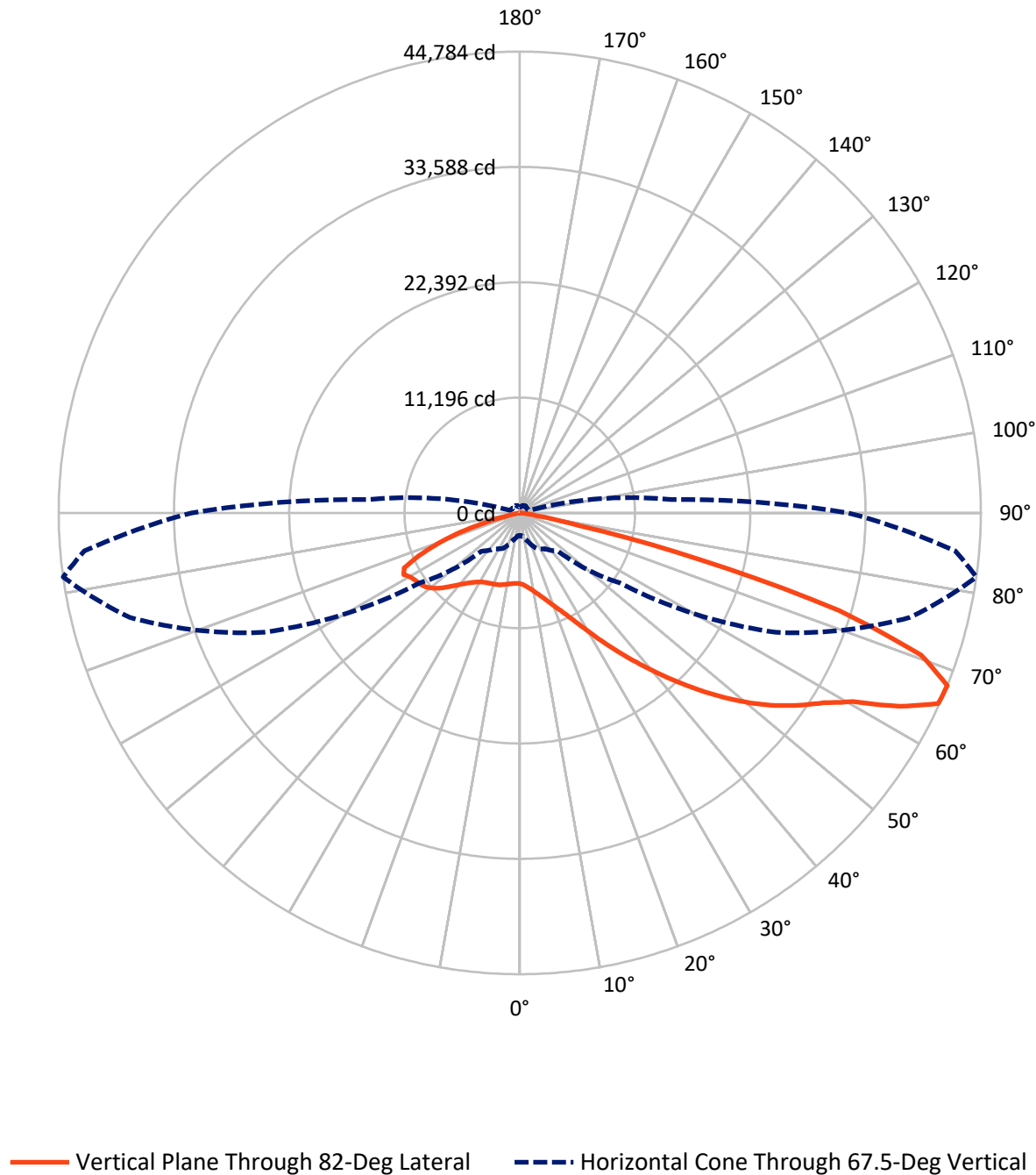
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Medium - N/A

REPORT NUMBER: P971573
CATALOG NUMBER: NAV-SB6D-830-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P971573

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7517.6	0.0	7517.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	33983.6	0.0	33983.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	41501.2	0.0	41501.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.5	1.5
10°-20°	1591.8	3.8
20°-30°	2549.5	6.1
30°-40°	4508.3	10.9
40°-50°	7898.9	19.0
50°-60°	10534.9	25.4
60°-70°	9807.5	23.6
70°-80°	3764.1	9.1
80°-90°	233.8	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°	41501.2	100.0
0°-180°	41501.2	100.0

Coefficient of Utilization



REPORT NUMBER: P971573

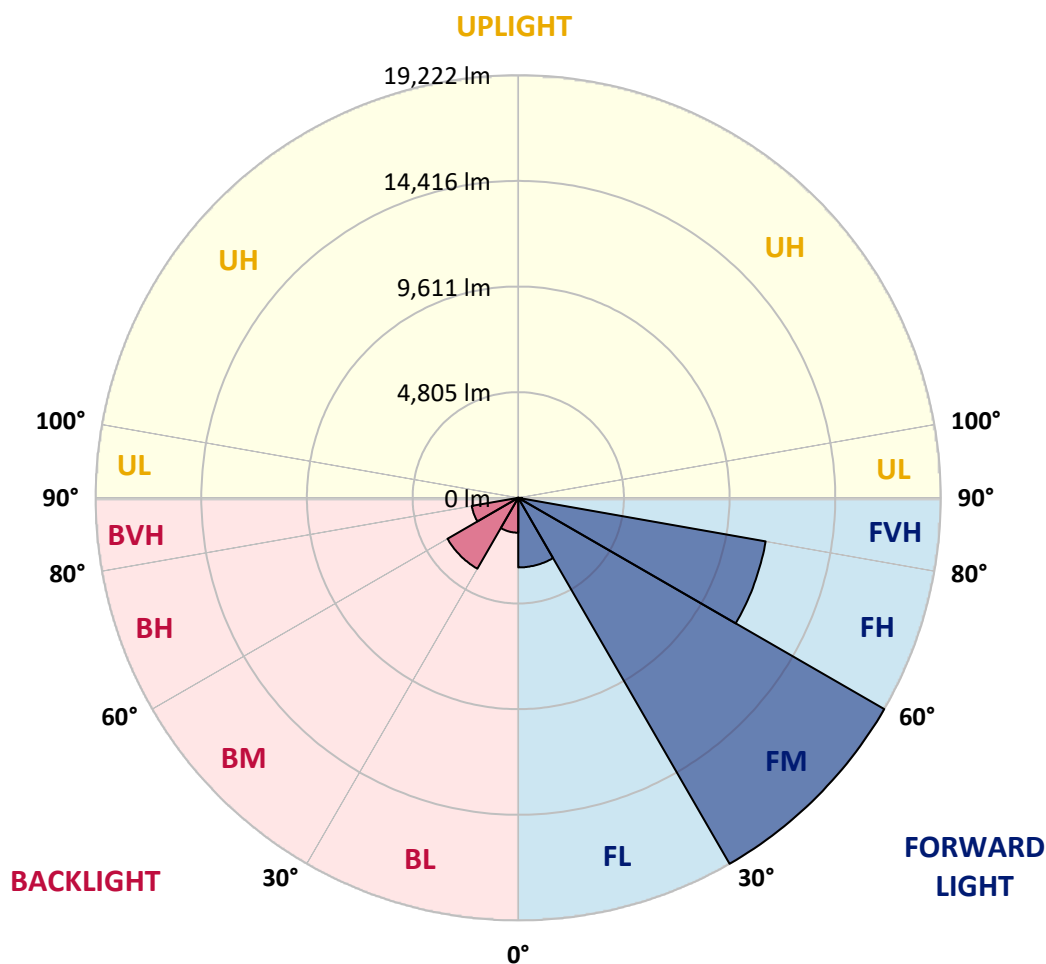
CATALOG NUMBER: NAV-SB6D-830-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3166.1	7.6			
FM	(30°-60°)	19221.7	46.3			
FH	(60°-80°)	11425.9	27.5			G4/12000
FVH	(80°-90°)	170.0	0.4			G2/225
BL	(0°-30°)	1587.7	3.8	B3/2500		
BM	(30°-60°)	3720.4	9.0	B3/5000		
BH	(60°-80°)	2145.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	63.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



REPORT NUMBER: P971573

CATALOG NUMBER: NAV-SB6D-830-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4
2.5°	7266.7	7308.6	7284.7	7272.8	7251.9	7221.9	7198.1	7123.3	7045.6	6994.9	6977.0
5°	7413.2	7455.0	7452.1	7463.9	7478.9	7487.9	7481.9	7398.2	7287.6	7201.0	7150.2
7.5°	7287.6	7335.5	7374.4	7434.1	7538.7	7649.3	7703.0	7685.1	7571.6	7452.1	7389.3
10°	6932.1	6982.9	7075.6	7216.0	7437.1	7676.1	7876.3	7969.0	7897.2	7765.8	7679.1
12.5°	6280.8	6331.5	6513.8	6818.6	7189.0	7604.4	7986.9	8234.8	8252.8	8121.4	8019.7
15°	5548.7	5599.5	5793.7	6176.1	6740.9	7407.2	8046.7	8515.7	8674.2	8560.6	8438.1
17.5°	5094.6	5139.3	5285.7	5593.5	6182.2	7012.8	8025.7	8814.6	9176.1	9086.4	8940.0
20°	4957.1	4996.0	5064.6	5279.8	5769.8	6603.5	7888.3	9095.4	9716.9	9666.2	9501.8
22.5°	5103.5	5139.3	5160.3	5255.9	5563.6	6334.5	7715.0	9382.2	10344.4	10350.3	10150.2
25°	5441.1	5477.0	5453.1	5512.9	5647.2	6250.9	7649.3	9719.9	11133.2	11198.9	10971.9
27.5°	5996.9	5999.8	5943.1	5940.1	5961.0	6376.3	7717.9	10081.5	12128.2	12250.7	11969.8
30°	7111.4	7066.6	6848.4	6612.4	6504.9	6752.8	7909.2	10508.7	13302.4	13520.7	13168.1
32.5°	8829.5	8763.8	8363.4	7798.6	7231.0	7359.4	8252.8	10995.8	14581.3	14975.8	14545.5
35°	10694.0	10676.1	10257.8	9418.1	8426.1	8223.0	8811.5	11635.2	15976.8	16604.2	16093.3
37.5°	12427.0	12418.1	12179.0	11190.0	9982.9	9427.1	9708.0	12471.8	17470.7	18379.1	17775.6
40°	14010.6	14037.6	13798.6	12914.1	11697.9	10971.9	10927.0	13505.7	19132.0	20312.3	19595.2
42.5°	15379.1	15409.0	15167.0	14512.7	13392.1	12681.0	12424.0	14772.6	20754.5	22389.0	21540.4
45°	16308.4	16493.7	16457.8	15935.0	15131.2	14393.2	14222.8	16362.2	22604.1	24591.1	23596.1
47.5°	16571.4	16741.6	17010.6	17082.3	16592.3	15866.2	16069.3	18277.5	24474.5	26796.3	25663.7
50°	15923.0	16081.3	16640.1	17384.1	17724.7	17500.6	17865.1	20330.3	26389.9	28995.4	27692.6
52.5°	14644.1	14805.4	15510.6	16687.9	18077.3	18782.5	19666.9	22353.1	28245.4	31078.0	29613.9
55°	12794.6	12964.8	13870.2	15202.9	17405.0	19311.3	21169.8	24373.0	29945.6	32951.5	31347.0
57.5°	10278.7	10404.2	11345.4	13209.9	15713.8	18785.5	22278.4	26578.1	31547.1	34792.1	33065.1
60°	6699.1	6809.6	7903.3	9982.9	12911.1	17028.5	22499.5	29037.2	33674.5	37185.5	35380.7
62.5°	4455.1	4529.8	5178.2	6705.0	9092.5	13655.0	21205.7	31000.3	36794.0	41350.7	39351.7
65°	3056.8	3131.4	3779.8	4843.5	5874.4	9032.7	17485.7	30740.4	39620.7	44658.4	42294.9
67.5°	2181.2	2243.9	2793.7	3797.7	4251.9	5246.9	11853.3	27417.7	39214.2	44783.9	42453.2
70°	1562.7	1598.6	2052.8	2958.1	3379.4	3152.3	6591.5	20969.7	34334.9	41353.7	39220.3
72.5°	1093.6	1105.6	1425.3	2253.0	2722.1	2300.7	3137.4	13980.8	25968.6	32458.5	30405.7
75°	741.0	755.9	959.1	1652.4	2184.2	1757.0	1661.3	7496.8	15244.7	17966.7	16105.2
77.5°	454.2	460.1	618.5	1129.4	1634.5	1338.6	1069.7	3176.3	5898.3	5790.7	4936.2
80°	257.0	257.0	394.4	702.1	1114.5	863.6	750.0	1350.5	1867.4	1640.4	1446.2
82.5°	143.4	146.4	286.9	436.2	738.0	511.0	412.4	624.5	806.8	714.1	621.5
85°	59.8	65.7	176.3	206.1	352.6	254.0	167.3	262.9	298.8	265.9	194.2
87.5°	5.9	8.9	53.8	38.8	41.8	50.8	23.9	50.8	41.8	41.8	29.9
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: P971573

CATALOG NUMBER: NAV-SB6D-830-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4	6875.4
2.5°	6920.2	6875.4	6761.8	6630.3	6457.0	6373.3	6259.8	6182.2	6116.4	6122.4	6062.6
5°	7054.7	6941.1	6687.1	6370.4	5976.0	5695.1	5396.3	5190.1	5022.8	4986.9	4906.3
7.5°	7239.9	7060.6	6615.4	6044.7	5378.4	4873.4	4422.3	4132.4	3926.2	3860.5	3794.8
10°	7478.9	7219.0	6522.8	5635.3	4676.2	4033.8	3549.7	3322.6	3182.2	3134.3	3098.6
12.5°	7756.8	7401.2	6400.3	5136.4	3953.1	3334.6	3026.8	2913.3	2868.5	2853.5	2844.6
15°	8106.4	7628.4	6215.0	4544.7	3340.6	2907.3	2775.8	2760.9	2766.9	2760.9	2757.9
17.5°	8521.7	7876.3	5913.2	3935.2	2928.2	2689.2	2641.4	2653.3	2668.3	2665.3	2659.3
20°	8975.9	8121.4	5527.7	3394.4	2647.4	2533.8	2506.9	2518.8	2530.8	2524.9	2521.8
22.5°	9492.8	8384.3	5100.5	2973.0	2459.1	2390.4	2360.5	2363.4	2363.4	2351.6	2345.6
25°	10111.3	8674.2	4652.3	2674.2	2315.7	2261.9	2226.1	2214.1	2196.2	2160.3	2154.3
27.5°	10849.3	8981.9	4222.0	2465.1	2202.1	2151.4	2109.6	2079.6	2034.8	1975.1	1969.1
30°	11680.0	9355.4	3857.5	2333.6	2112.5	2061.7	2013.9	1969.1	1903.3	1828.6	1822.7
32.5°	12657.1	9755.7	3591.6	2247.0	2031.9	1978.0	1921.3	1867.4	1795.8	1721.1	1724.0
35°	13822.4	10239.9	3436.2	2187.2	1969.1	1897.4	1834.6	1774.9	1721.1	1655.4	1649.3
37.5°	15086.4	10753.8	3388.3	2157.3	1927.2	1816.7	1745.0	1703.1	1697.2	1658.3	1655.4
40°	16469.8	11363.3	3424.2	2139.4	1882.4	1739.0	1661.3	1652.4	1667.3	1598.6	1601.6
42.5°	17933.9	12086.4	3484.0	2118.5	1819.7	1661.3	1586.6	1586.6	1574.7	1479.1	1479.1
45°	19517.5	12920.0	3543.7	2067.7	1745.0	1583.6	1526.8	1505.9	1455.2	1362.5	1359.6
47.5°	21113.1	13768.6	3588.5	1975.1	1655.4	1517.9	1467.1	1419.3	1344.6	1261.0	1258.0
50°	22628.0	14530.6	3540.8	1837.6	1553.8	1455.2	1401.4	1335.7	1254.9	1198.2	1189.2
52.5°	23981.5	15190.9	3337.6	1676.3	1446.2	1389.4	1341.6	1272.8	1207.1	1147.4	1141.4
55°	25158.8	15725.8	2979.1	1523.9	1350.5	1332.6	1284.8	1198.2	1108.5	1057.7	1051.8
57.5°	26288.3	16132.2	2530.8	1398.4	1263.9	1269.9	1198.2	1120.5	1036.8	983.1	977.0
60°	27791.2	16675.9	2076.6	1281.9	1171.3	1189.2	1111.5	1054.7	950.2	881.5	872.5
62.5°	30193.5	17521.6	1649.3	1138.5	1063.7	1069.7	1036.8	968.1	842.7	762.0	755.9
65°	32099.9	17210.8	1299.8	983.1	941.3	950.2	950.2	875.5	741.0	648.4	639.4
67.5°	31884.8	14736.7	1036.8	830.7	824.7	830.7	851.6	788.8	657.3	582.6	570.7
70°	29371.9	11721.9	830.7	690.2	717.1	702.1	762.0	720.1	591.6	516.9	508.0
72.5°	23966.7	8444.1	633.4	570.7	549.8	573.7	687.3	648.4	493.0	409.4	400.4
75°	14004.7	4505.9	472.1	451.2	397.4	478.1	609.6	552.8	376.5	301.8	292.8
77.5°	4559.7	1571.6	346.7	331.7	295.8	385.4	519.9	466.2	307.8	239.0	230.1
80°	1222.1	475.1	236.1	218.1	191.3	286.9	412.4	370.5	221.1	155.4	152.4
82.5°	490.1	200.2	137.5	122.5	104.6	197.2	325.6	298.8	164.3	98.6	98.6
85°	158.4	65.7	50.8	38.8	47.8	122.5	194.2	203.2	116.5	50.8	38.8
87.5°	20.9	8.9	8.9	12.0	8.9	20.9	59.8	56.8	32.9	5.9	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)