

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: P971567

Luminaire Tested: **NAV-SB6D-830-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56337.1 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

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

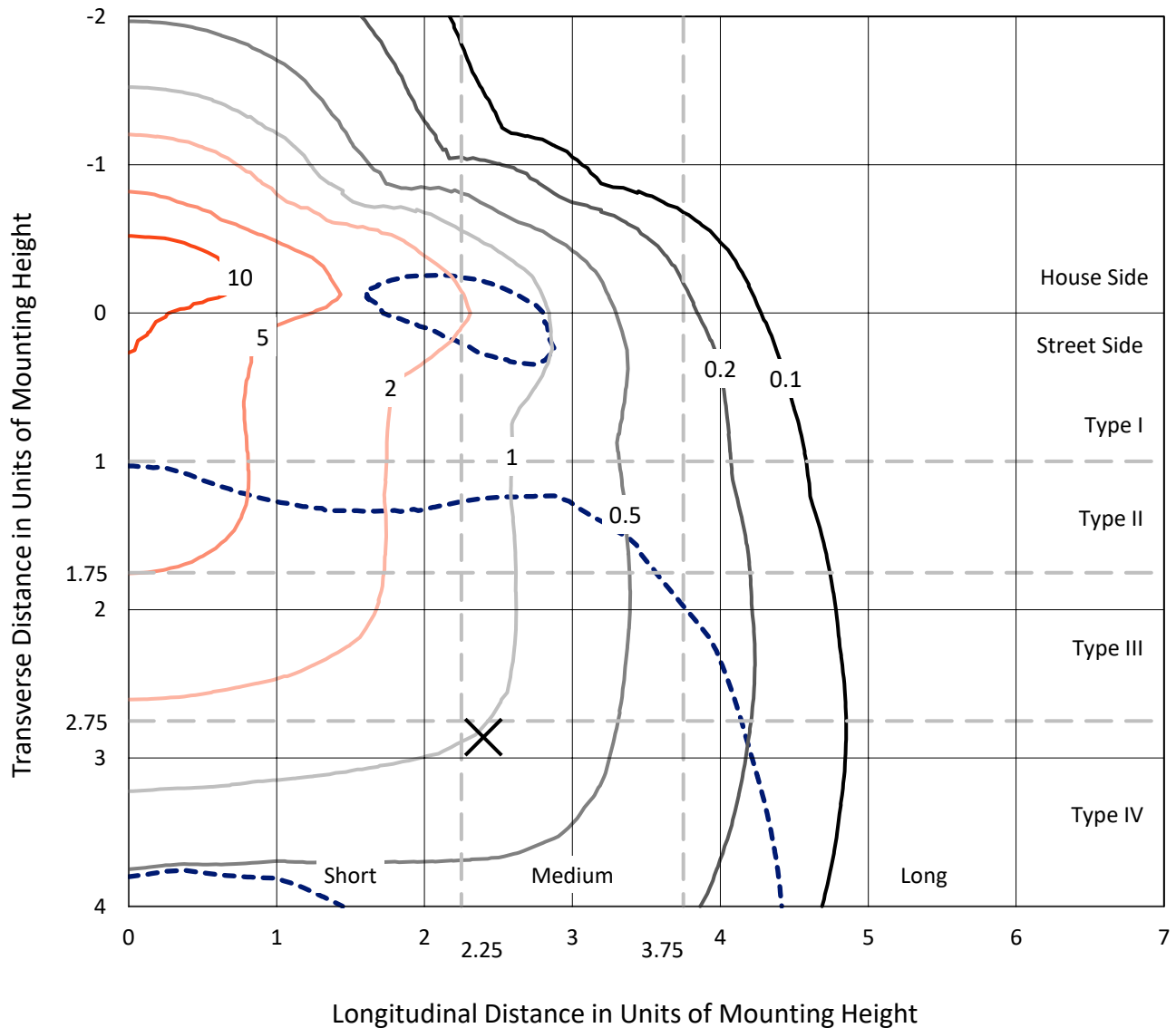


REPORT NUMBER: P971567

CATALOG NUMBER: NAV-SB6D-830-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

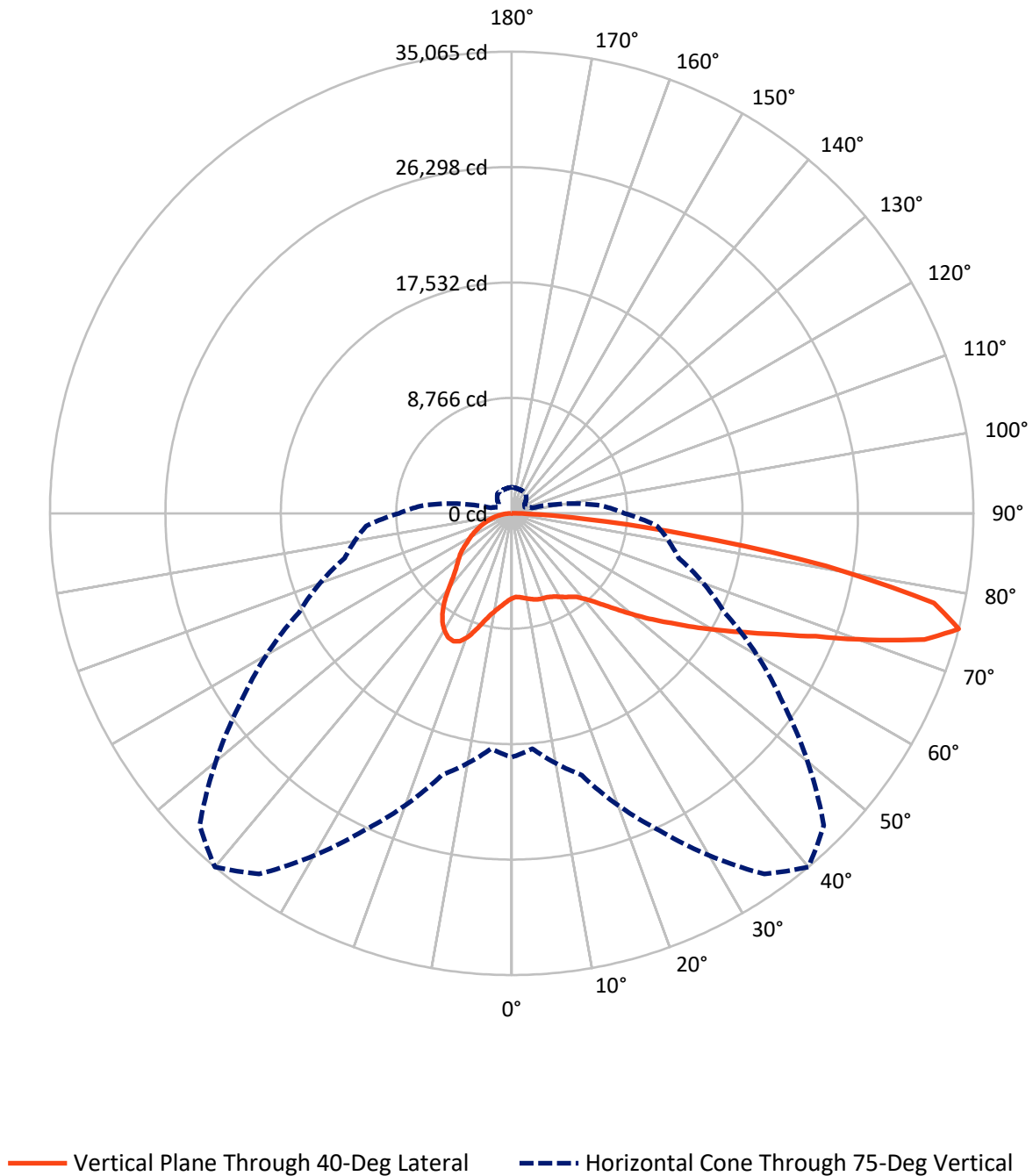
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
Type IV - Medium - N/A

REPORT NUMBER: P971567
CATALOG NUMBER: NAV-SB6D-830-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P971567

CATALOG NUMBER: NAV-SB6D-830-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17455.1	0.0	17455.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	38882.0	0.0	38882.0
	% Fixture	69.0	0.0	69.0
Total	Lumens	56337.1	0.0	56337.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	643.1	1.1
10°-20°	2159.0	3.8
20°-30°	3942.2	7.0
30°-40°	5591.2	9.9
40°-50°	7549.7	13.4
50°-60°	10156.4	18.0
60°-70°	12890.8	22.9
70°-80°	11699.2	20.8
80°-90°	1705.4	3.0
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°	56337.1	100.0
0°-180°	56337.1	100.0

Coefficient of Utilization



REPORT NUMBER: P971567

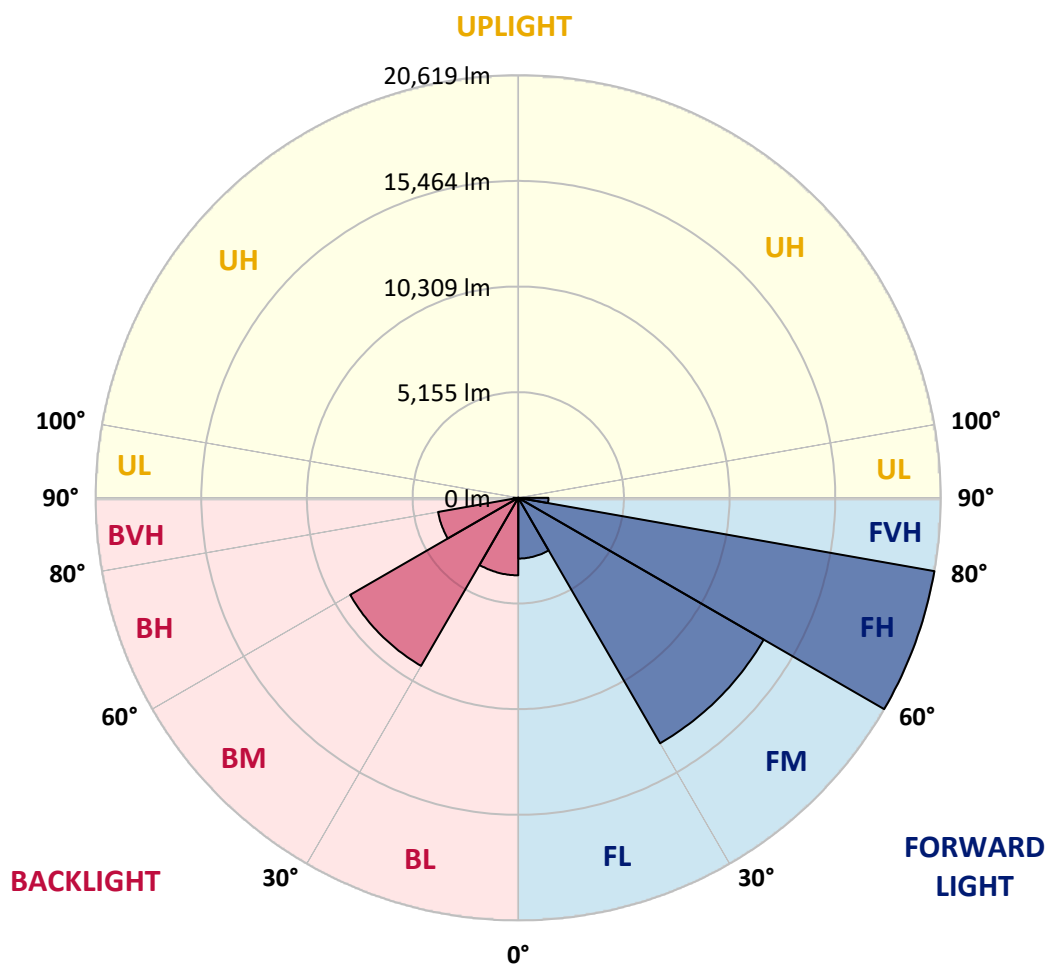
CATALOG NUMBER: NAV-SB6D-830-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2963.4	5.3			
FM	(30°-60°)	13829.5	24.5			
FH	(60°-80°)	20618.5	36.6			G5
FVH	(80°-90°)	1470.6	2.6			G5
BL	(0°-30°)	3780.9	6.7	B4/5000		
BM	(30°-60°)	9467.8	16.8	B5		
BH	(60°-80°)	3971.5	7.0	B4/5000		G4/5000
BVH	(80°-90°)	234.8	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



REPORT NUMBER: P971567

CATALOG NUMBER: NAV-SB6D-830-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2
2.5°	6343.6	6379.5	6370.5	6358.6	6358.6	6361.6	6358.6	6379.5	6400.4	6421.3	6454.2
5°	6409.3	6445.2	6427.3	6412.3	6400.4	6397.4	6388.4	6385.4	6397.4	6424.3	6469.1
7.5°	6537.9	6573.7	6546.8	6519.9	6496.0	6484.0	6472.1	6454.2	6445.2	6460.2	6522.9
10°	6681.3	6717.1	6684.2	6636.5	6597.6	6582.7	6570.7	6552.8	6540.8	6549.7	6618.5
12.5°	6824.7	6860.5	6815.7	6750.0	6699.2	6690.3	6675.3	6669.3	6666.3	6663.3	6732.1
15°	6959.1	6989.1	6932.3	6854.6	6800.8	6785.8	6770.9	6779.9	6794.8	6812.8	6890.5
17.5°	7063.7	7093.6	7010.0	6908.4	6857.6	6851.6	6842.6	6872.5	6914.3	6959.1	7054.8
20°	7159.3	7189.2	7081.6	6944.2	6884.4	6884.4	6887.5	6950.2	7010.0	7075.7	7207.2
22.5°	7293.8	7317.7	7186.3	6998.0	6911.4	6917.3	6941.2	7003.9	7078.6	7168.3	7350.6
25°	7494.0	7511.9	7350.6	7099.6	7001.0	7018.9	7039.8	7069.7	7141.4	7246.0	7491.0
27.5°	7816.8	7831.6	7619.5	7278.8	7129.5	7159.3	7189.2	7168.3	7201.1	7290.8	7604.6
30°	8270.9	8279.8	8011.0	7559.8	7347.6	7362.6	7368.5	7281.9	7219.1	7290.8	7685.2
32.5°	8808.7	8805.8	8486.1	7900.4	7595.6	7580.7	7529.9	7359.5	7213.1	7275.9	7757.0
35°	9642.4	9609.6	9197.2	8378.5	7876.5	7783.8	7664.3	7446.2	7243.1	7260.9	7819.7
37.5°	11022.8	10921.3	10350.6	9161.3	8294.8	8058.8	7882.5	7586.6	7308.8	7255.0	7894.4
40°	12579.6	12451.2	11823.7	10234.0	8922.3	8542.9	8258.9	7786.8	7416.3	7281.9	8004.9
42.5°	14426.3	14244.0	13568.7	11497.9	9717.1	9167.3	8740.1	8040.8	7574.6	7368.5	8154.4
45°	16694.2	16452.2	15496.0	12923.3	10718.1	9986.1	9415.3	8426.3	7816.8	7535.8	8378.5
47.5°	18986.0	19045.8	17686.3	14554.8	11919.3	10996.0	10261.0	9006.0	8169.4	7804.8	8740.1
50°	21421.3	21463.1	19864.5	16362.5	13281.8	12137.4	11211.1	9654.4	8659.3	8187.2	9280.9
52.5°	23321.7	23327.7	21842.5	18253.9	14701.2	13392.4	12236.0	10395.4	9227.0	8695.2	10001.0
55°	24510.9	24496.0	23229.1	20043.8	16332.7	14710.1	13371.5	11238.0	9920.3	9292.9	10906.3
57.5°	25374.5	25329.6	24185.2	21582.6	18071.7	16266.9	14656.4	12194.2	10739.0	10004.0	12098.6
60°	25703.1	25676.2	24833.6	22912.3	19900.4	17988.0	16138.4	13263.9	11668.3	10843.6	13631.5
62.5°	25828.7	25879.4	25470.1	24200.1	21857.5	19894.4	17766.9	14542.8	12714.1	11793.8	15248.0
65°	26270.9	26363.5	26279.9	25885.5	24068.6	22126.5	19927.2	16063.7	13855.5	12812.7	16936.2
67.5°	27146.4	27239.0	27274.8	27902.3	26769.8	24908.3	22622.5	17958.1	15191.2	13870.5	18206.2
70°	27125.5	27098.5	27732.0	29506.9	30152.3	28759.9	26255.9	20288.8	16783.9	14748.9	18367.5
72.5°	24690.2	24475.1	25972.1	29488.9	32967.1	32781.9	30693.2	23294.8	18158.3	14856.6	15938.2
75°	18522.9	17949.2	20593.6	26575.7	33436.2	35064.6	33513.9	25159.3	17832.6	13126.5	11091.6
77.5°	7921.3	7344.6	10461.2	19673.2	29925.3	32778.8	30926.2	21950.2	14235.0	8680.2	5447.2
80°	2073.7	2070.7	3161.3	8919.3	20351.6	24206.1	21236.1	14175.2	8133.5	3101.5	1503.0
82.5°	857.6	836.6	1162.4	3469.1	9944.2	13583.6	11085.7	6322.7	2937.2	839.7	499.0
85°	319.7	316.7	564.8	1198.2	3508.0	5602.5	4054.8	1616.5	732.1	409.4	224.1
87.5°	89.7	86.6	122.5	415.3	854.5	1296.8	693.2	265.9	206.1	161.3	65.7
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: P971567

CATALOG NUMBER: NAV-SB6D-830-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2	6442.2
2.5°	6463.1	6478.1	6505.0	6525.9	6552.8	6582.7	6624.5	6651.4	6678.3	6696.2	6684.2
5°	6490.0	6522.9	6591.7	6660.3	6741.0	6815.7	6902.4	6965.1	7015.9	7030.9	7036.8
7.5°	6549.7	6603.6	6720.1	6836.6	6965.1	7087.7	7213.1	7320.8	7407.4	7440.3	7443.2
10°	6654.4	6726.0	6890.5	7054.8	7225.1	7413.3	7574.6	7730.0	7852.5	7903.4	7906.3
12.5°	6785.8	6875.5	7090.6	7317.7	7553.7	7813.8	8022.9	8214.1	8366.6	8435.2	8435.2
15°	6956.2	7072.7	7347.6	7652.3	7999.0	8360.5	8626.5	8838.7	9008.9	9092.6	9086.6
17.5°	7141.4	7296.8	7643.4	8103.5	8599.5	9074.7	9385.4	9540.8	9717.1	9797.8	9794.8
20°	7320.8	7511.9	8007.9	8677.2	9337.6	9842.6	10093.6	10135.4	10147.4	10156.3	10180.3
22.5°	7506.0	7762.9	8465.2	9400.4	10108.6	10458.2	10494.1	10314.7	10063.8	9947.2	9980.0
25°	7709.1	8049.8	9062.7	10198.2	10771.9	10813.7	10538.8	10102.6	9627.5	9409.3	9442.2
27.5°	7906.3	8381.4	9779.8	10960.1	11250.0	10882.4	10290.8	9672.3	9098.6	8868.5	8895.4
30°	8103.5	8761.0	10571.6	11626.5	11468.1	10712.2	9899.3	9209.1	8632.4	8390.4	8417.3
32.5°	8303.7	9203.2	11483.1	12107.5	11429.3	10350.6	9412.4	8689.2	8181.2	7927.2	7960.2
35°	8530.9	9747.0	12346.6	12370.5	11169.3	9818.7	8769.9	8067.7	7625.5	7422.3	7467.1
37.5°	8826.7	10437.3	13108.5	12436.2	10715.1	9038.9	7972.1	7332.6	6968.2	6875.5	6941.2
40°	9194.2	11267.9	13691.2	12331.7	10042.8	8091.7	7099.6	6588.6	6382.5	6403.4	6475.1
42.5°	9672.3	12197.2	14100.6	12062.7	9107.5	7114.5	6334.6	6107.6	6206.2	6289.8	6367.5
45°	10293.8	13162.3	14354.5	11605.6	8049.8	6286.8	5883.5	5937.2	6011.9	6021.0	6080.7
47.5°	11088.7	14139.5	14521.9	10915.3	6971.1	5704.1	5596.6	5608.6	5593.6	5530.9	5578.7
50°	12080.6	15089.6	14671.3	10001.0	6053.8	5339.6	5196.2	5154.4	4948.2	4745.0	4771.9
52.5°	13210.1	15962.1	14734.1	8865.5	5339.6	5034.9	4801.8	4538.8	4153.4	4090.7	4111.6
55°	14465.1	16768.9	14572.7	7470.1	4739.0	4643.5	4290.9	3974.1	3932.3	3878.5	3887.4
57.5°	15965.1	17638.4	14244.0	5913.3	4123.5	4186.2	3842.6	3878.5	3803.8	3720.1	3705.2
60°	17605.5	18537.8	13667.4	4494.0	3487.0	3615.5	3726.1	3723.1	3702.2	3633.4	3609.5
62.5°	19081.6	19129.5	12531.9	3442.3	2928.3	3173.3	3475.1	3472.1	3454.1	3415.3	3400.4
65°	19960.1	19039.8	10637.4	2710.2	2468.1	2808.8	3134.4	3158.3	3161.3	3158.3	3158.3
67.5°	19804.7	17991.0	8037.8	2157.3	2088.6	2438.3	2796.8	2829.7	2853.6	2859.5	2865.5
70°	18047.8	15687.2	5241.0	1721.1	1751.0	2112.5	2477.1	2509.9	2530.8	2554.8	2566.7
72.5°	14067.7	11533.8	3000.0	1392.5	1455.2	1831.7	2160.4	2199.2	2211.1	2255.9	2273.9
75°	8572.7	6782.8	1619.5	1096.6	1195.3	1565.7	1846.6	1891.4	1912.3	1966.2	1972.1
77.5°	4075.7	2937.2	923.3	854.5	962.2	1278.9	1559.7	1610.6	1553.8	1583.6	1559.7
80°	1377.5	1090.6	582.7	651.4	735.0	998.0	1249.0	1299.8	1180.3	1174.3	1162.4
82.5°	481.0	442.2	370.5	433.3	475.1	714.1	944.2	1009.9	878.5	875.5	833.6
85°	188.3	179.3	206.1	236.1	283.8	439.2	621.6	654.4	540.8	436.2	430.3
87.5°	38.8	41.8	50.8	53.8	86.6	152.4	224.1	274.9	218.1	185.2	170.4
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)