

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: P971577

Luminaire Tested: **NAV-SB6D-830-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-830-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57595.8 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
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



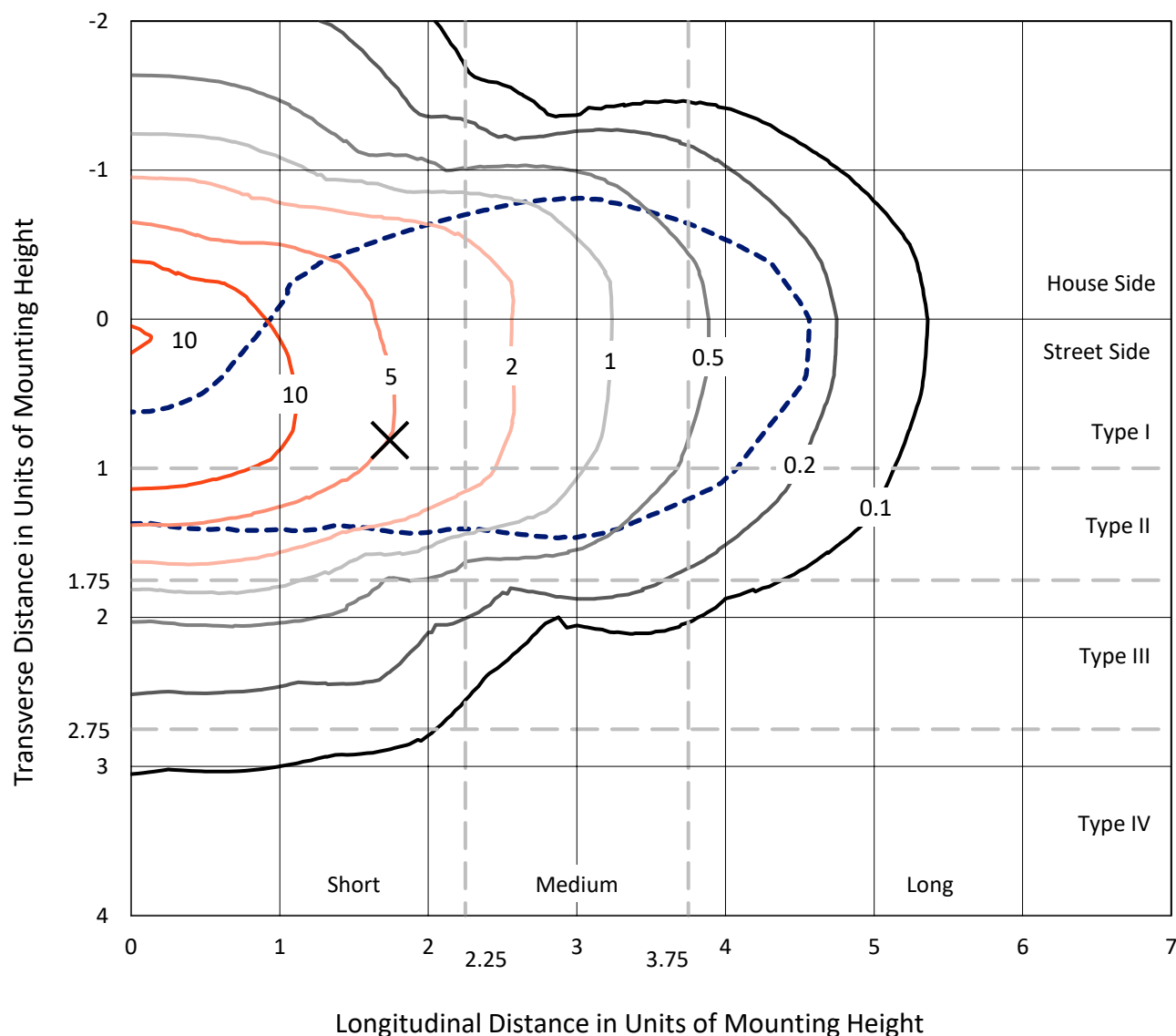
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

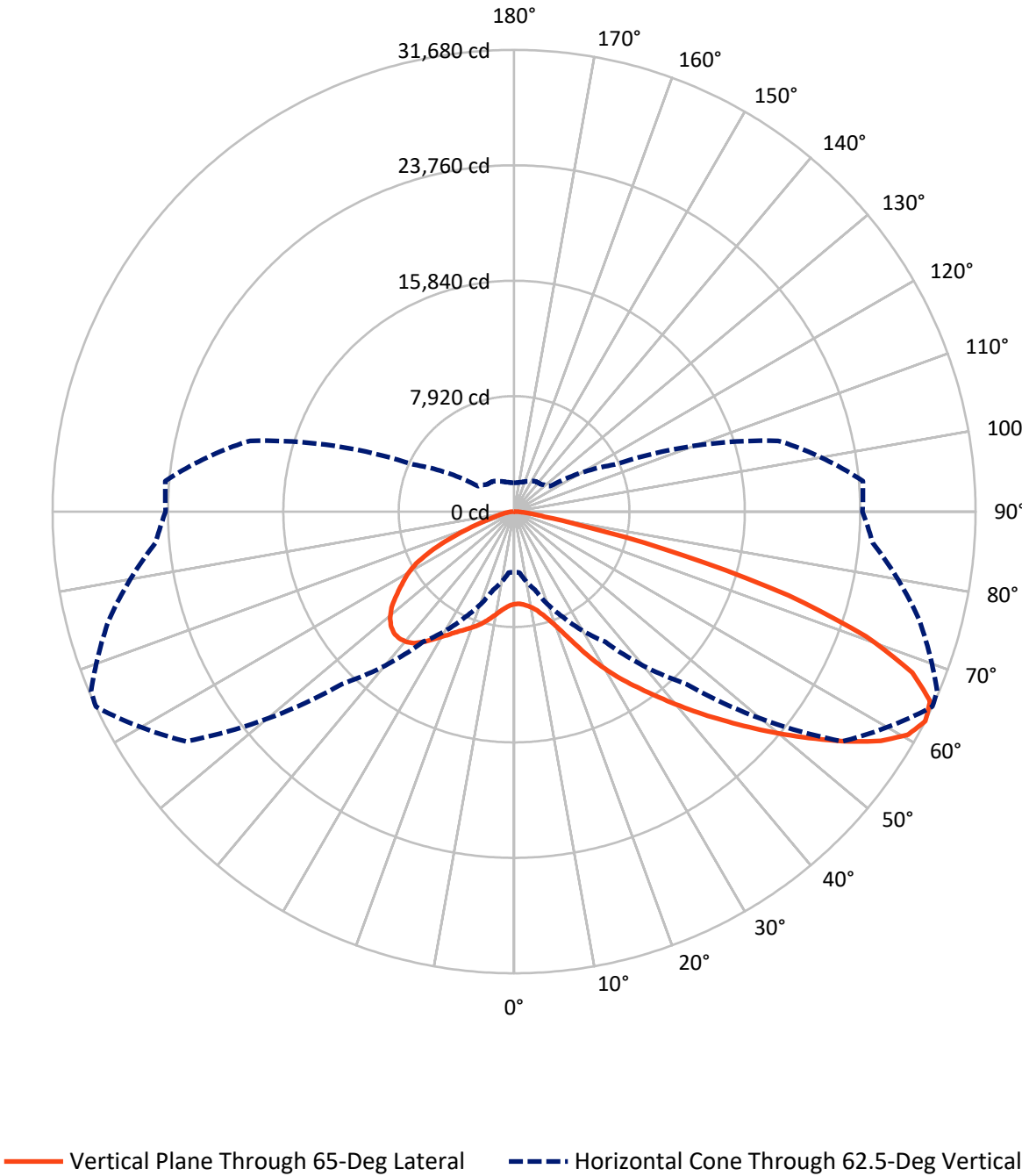


Based on 25 foot mounting height. Maximum calculated value = 16.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18174.7	0.0	18174.7
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	39421.1	0.0	39421.1
	% Fixture	68.4	0.0	68.4
Total	Lumens	57595.8	0.0	57595.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.8	1.1
10°-20°	2145.8	3.7
20°-30°	4350.8	7.6
30°-40°	7529.0	13.1
40°-50°	11393.7	19.8
50°-60°	13358.3	23.2
60°-70°	11199.4	19.4
70°-80°	6183.0	10.7
80°-90°	803.1	1.4
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°	57595.8	100.0
0°-180°	57595.8	100.0

Coefficient of Utilization



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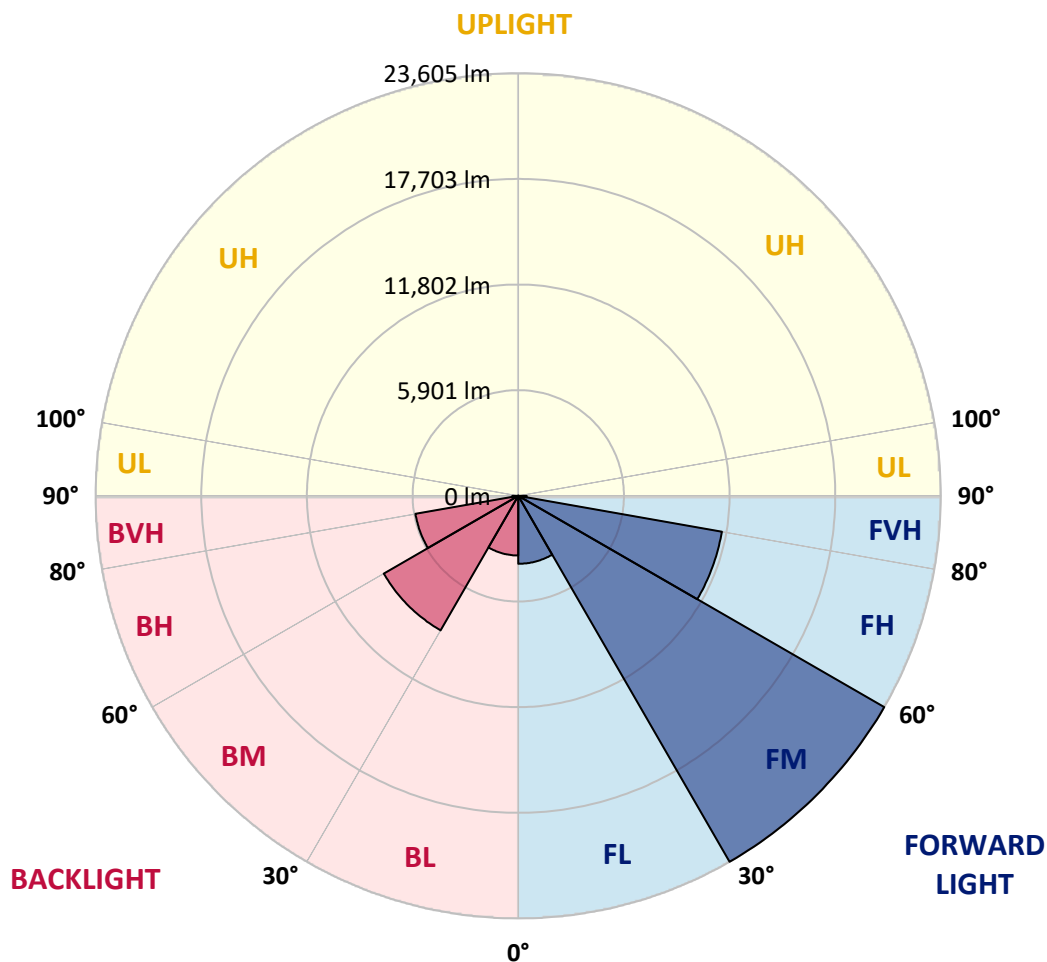
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3796.3	6.6			
FM	(30°-60°)	23604.6	41.0			
FH	(60°-80°)	11552.0	20.1			G4/12000
FVH	(80°-90°)	468.1	0.8			G3/500
BL	(0°-30°)	3333.0	5.8	B4/5000		
BM	(30°-60°)	8676.3	15.1	B5		
BH	(60°-80°)	5830.3	10.1	B5		G5
BVH	(80°-90°)	335.0	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8
2.5°	6305.0	6287.0	6302.0	6302.0	6308.0	6305.0	6325.9	6331.8	6340.9	6358.8	6358.8
5°	6242.2	6239.3	6266.1	6290.0	6313.9	6334.8	6361.8	6400.6	6406.6	6427.5	6454.4
7.5°	6221.3	6203.4	6245.2	6275.0	6331.8	6382.7	6454.4	6520.1	6547.0	6556.0	6606.7
10°	6382.7	6352.7	6391.6	6409.5	6457.4	6508.1	6591.9	6696.4	6726.3	6762.1	6818.9
12.5°	6657.6	6624.7	6681.5	6708.4	6753.2	6798.0	6854.8	6956.4	6971.3	7037.0	7090.8
15°	7034.1	6995.2	7031.1	7064.0	7138.6	7180.5	7237.3	7335.9	7335.9	7386.7	7425.5
17.5°	7545.0	7494.3	7521.1	7533.1	7580.9	7643.6	7739.3	7826.0	7870.8	7852.8	7799.0
20°	8307.0	8244.3	8244.3	8184.5	8166.6	8217.4	8342.9	8462.4	8510.3	8417.6	8286.1
22.5°	9451.5	9361.8	9311.0	9107.8	9027.2	9033.1	9158.7	9305.1	9343.9	9179.6	8883.8
25°	10906.7	10766.3	10697.5	10398.7	10216.5	10058.1	10156.7	10344.9	10398.7	10195.6	9717.4
27.5°	12361.9	12370.9	12305.1	11946.6	11644.8	11354.9	11304.1	11501.3	11558.1	11328.0	10736.4
30°	14402.8	14190.7	14065.2	13634.9	13204.6	12798.2	12589.0	12669.7	12684.7	12409.8	11722.5
32.5°	16162.8	16109.0	15840.1	15463.7	14910.8	14274.4	13924.7	13796.2	13772.3	13380.9	12565.2
35°	18167.9	18138.0	17854.2	17405.9	16808.3	15923.8	15293.3	14925.7	14895.9	14346.0	13398.8
37.5°	20205.8	20205.8	19927.8	19437.8	18819.3	17713.6	16754.4	16171.8	16076.2	15359.0	14247.4
40°	21831.4	21732.8	21783.5	21577.4	20869.2	19694.9	18377.0	17531.4	17403.0	16542.4	15149.8
42.5°	22754.7	22721.8	23026.6	23256.6	22966.9	22028.6	20164.0	19004.5	18825.3	17845.1	16189.8
45°	22960.8	22924.9	23468.8	24311.5	24717.9	24332.4	22106.3	20555.4	20337.2	19207.8	17304.3
47.5°	22485.7	22414.0	23211.8	24541.6	25844.5	26522.7	24209.9	22237.7	21921.0	20534.4	18448.8
50°	21057.4	20988.7	22195.9	23961.8	26223.9	28010.8	26492.9	24021.6	23537.6	21956.8	19605.2
52.5°	17952.8	17985.6	19877.1	22303.5	25724.8	28937.1	28459.0	25901.1	25318.5	23412.0	20689.8
55°	13984.5	14056.2	16380.9	19052.4	23728.9	28796.7	29800.7	27837.5	27257.8	24780.6	21810.5
57.5°	10013.2	10329.9	12508.4	15152.9	19895.0	26570.6	30093.5	29678.2	29116.5	26274.6	22907.1
60°	6490.2	6547.0	8788.1	11453.6	15149.8	22614.3	29498.9	31073.7	30634.4	27798.6	23824.4
62.5°	4159.4	4198.3	5563.9	8011.2	10903.7	16730.6	27496.9	31680.2	31545.8	28805.7	24705.9
65°	3056.9	3027.0	3738.2	5294.9	7344.8	10318.1	23609.2	31387.4	31653.3	29436.2	25435.1
67.5°	2551.8	2510.0	2859.6	3666.4	5411.5	5859.7	17468.7	29483.9	30458.1	29364.4	25969.9
70°	2324.8	2288.9	2501.1	2722.2	4222.3	3923.4	8806.1	25632.3	27132.3	28548.7	25883.3
72.5°	1969.2	1906.4	2196.3	2417.4	3284.0	3009.1	3639.6	19688.8	21517.6	25934.0	24664.1
75°	1526.9	1485.1	1733.1	2127.6	2468.2	2348.7	2300.8	11955.5	13951.6	20056.4	21577.4
77.5°	1210.2	1153.4	1380.5	1658.4	2220.1	1771.9	1676.4	5148.6	7126.7	12804.2	16144.9
80°	911.4	860.6	1048.9	1311.8	1706.2	1335.7	1084.7	2100.6	2686.3	6487.2	8118.8
82.5°	648.4	603.6	732.1	962.2	1147.5	1198.2	666.4	1177.3	1323.8	2501.1	1813.8
85°	415.3	388.5	490.1	603.6	729.1	770.9	406.4	615.5	675.3	1030.9	756.0
87.5°	227.1	185.2	262.9	280.8	337.6	307.8	194.2	224.1	242.0	373.5	319.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8	6346.8
2.5°	6370.7	6379.7	6409.5	6418.5	6439.5	6466.3	6484.3	6502.2	6502.2	6520.1	6520.1
5°	6457.4	6478.3	6541.0	6573.9	6627.6	6681.5	6714.4	6753.2	6777.1	6789.1	6795.0
7.5°	6624.7	6657.6	6747.2	6804.0	6896.6	6971.3	7022.2	7075.9	7087.9	7120.8	7108.8
10°	6851.8	6890.7	6992.2	7099.8	7210.4	7303.0	7350.8	7389.6	7404.6	7410.5	7395.7
12.5°	7111.8	7168.5	7300.0	7431.5	7548.0	7628.7	7640.7	7631.7	7589.9	7554.0	7554.0
15°	7431.5	7482.3	7628.7	7772.2	7885.7	7900.6	7826.0	7778.1	7727.4	7718.4	7718.4
17.5°	7814.0	7840.8	7975.3	8115.7	8124.8	8073.9	7963.4	7918.5	7870.8	7837.9	7840.8
20°	8259.2	8250.2	8345.9	8405.6	8342.9	8187.5	8020.1	7945.5	7897.6	7858.8	7861.7
22.5°	8791.1	8722.3	8710.4	8695.5	8528.1	8202.5	7975.3	7879.7	7805.0	7751.3	7769.2
25°	9565.0	9302.1	9119.8	9018.2	8641.7	8121.8	7831.9	7619.7	7479.3	7386.7	7422.5
27.5°	10533.2	10090.9	9630.8	9382.7	8641.7	7957.4	7485.3	7141.7	6911.6	6815.9	6863.7
30°	11456.5	10993.3	10315.1	9822.0	8620.8	7688.5	6926.5	6448.4	6179.5	6083.9	6140.7
32.5°	12245.4	11740.3	11041.2	10303.1	8570.0	7252.2	6233.2	5704.3	5444.4	5330.8	5387.6
35°	12977.5	12439.6	11770.3	10832.0	8435.5	6612.8	5471.2	5067.9	4778.0	4595.8	4655.5
37.5°	13727.5	13088.0	12460.5	11310.1	8193.4	5865.7	4885.6	4542.0	4201.4	3956.3	4022.0
40°	14543.3	13778.3	13198.6	11594.0	7796.0	5154.5	4431.4	4117.6	3756.1	3496.1	3546.9
42.5°	15496.5	14606.0	14020.4	11740.3	7252.2	4649.5	4135.6	3827.8	3487.2	3275.0	3316.8
45°	16491.5	15517.4	14770.4	11737.4	6645.6	4413.4	4039.9	3735.2	3358.6	3137.5	3173.4
47.5°	17534.4	16470.6	15418.8	11546.2	6119.7	4446.3	3986.2	3534.9	3119.6	2904.4	2934.4
50°	18580.3	17513.5	16046.3	11187.6	5895.6	4374.6	3785.9	3254.1	2764.0	2569.8	2581.8
52.5°	19617.2	18622.1	16587.2	10676.6	5668.5	4108.7	3529.0	2889.6	2617.6	2483.2	2483.2
55°	20660.0	19718.7	17175.8	9932.6	5100.7	3797.9	3098.7	2752.1	2501.1	2378.5	2366.6
57.5°	21705.8	20985.6	17734.6	9188.5	4386.6	3415.4	2862.6	2584.7	2384.6	2279.9	2262.0
60°	22793.5	22434.9	18311.3	8504.2	3681.4	2925.4	2689.3	2450.3	2247.1	2130.6	2121.5
62.5°	23914.1	24030.6	18762.5	7622.7	3033.0	2626.6	2533.9	2288.9	2091.7	1981.1	1978.1
65°	25043.6	25569.4	19058.3	6400.6	2459.3	2342.7	2366.6	2112.6	1912.4	1816.8	1813.8
67.5°	25895.2	26678.1	18974.7	4843.7	2017.0	2073.8	2157.4	1927.3	1739.1	1664.4	1667.4
70°	25990.8	26546.6	18150.0	3316.8	1688.3	1810.8	1924.3	1745.1	1550.8	1497.0	1500.1
72.5°	24717.9	24753.7	15852.0	2166.4	1428.3	1589.7	1679.4	1559.8	1371.6	1317.7	1314.8
75°	21380.2	20471.7	11638.8	1428.3	1195.3	1365.6	1449.2	1365.6	1183.3	1195.3	1153.4
77.5°	16198.7	14498.4	7067.0	1016.0	998.0	1147.5	1261.0	1201.2	1045.8	1174.3	1033.9
80°	8345.9	7843.8	3152.5	759.0	788.8	917.4	1036.9	959.2	827.7	788.8	720.2
82.5°	1912.4	2223.2	1243.0	543.9	570.7	660.4	791.8	720.2	594.6	502.0	496.0
85°	669.3	732.1	549.8	340.6	334.7	412.4	537.8	481.1	403.4	322.7	340.6
87.5°	212.2	277.9	206.2	137.5	143.4	185.2	248.0	227.1	188.3	122.5	128.5
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)