

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: P970387

Luminaire Tested: **NAV-SB6B-740-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970387
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-SB6B-740-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36190.7 lumens
Efficiency: N/A
Efficacy: 164.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 220.4
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

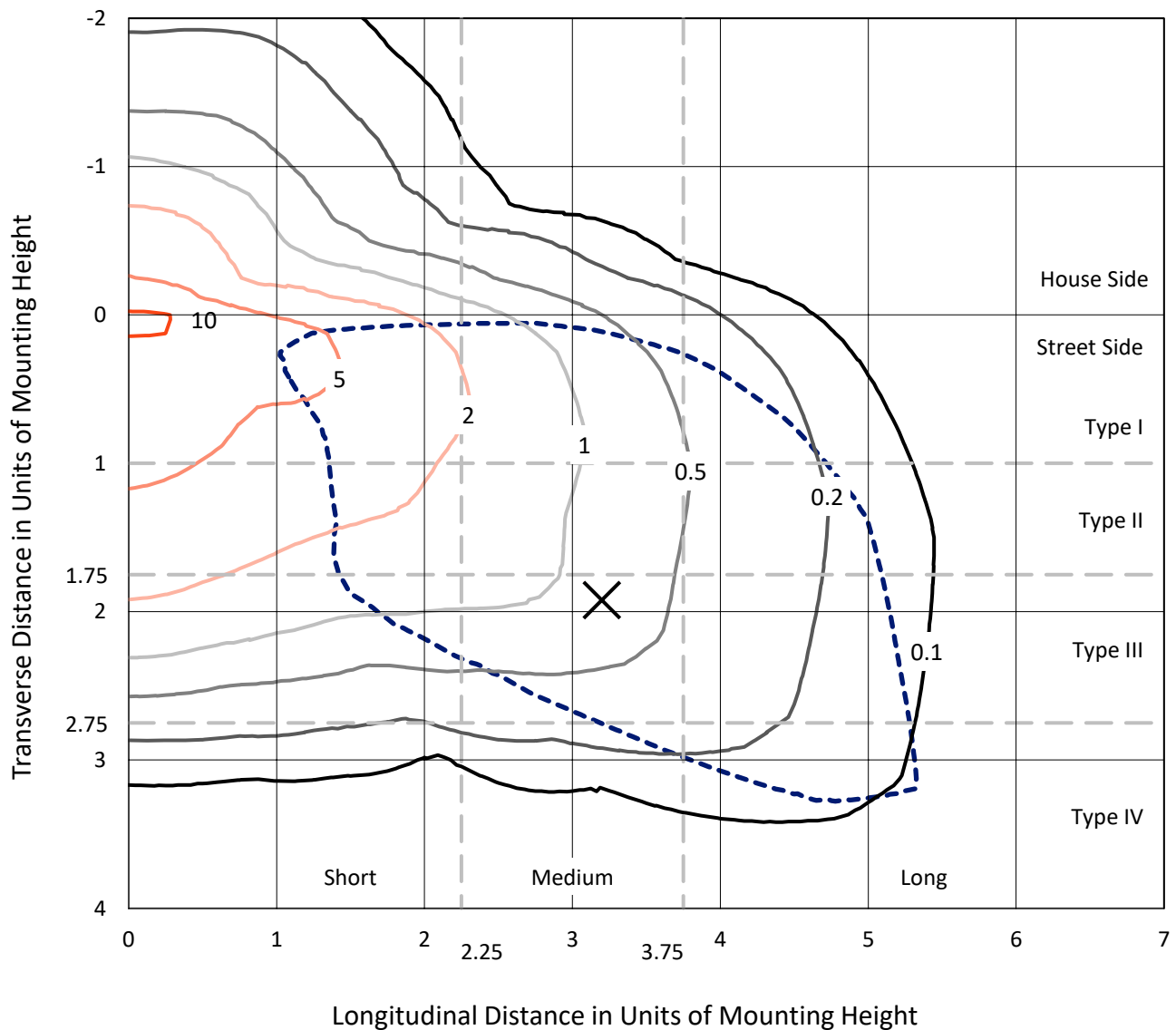


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Iso-Footcandle Lines of Horizontal Illumination

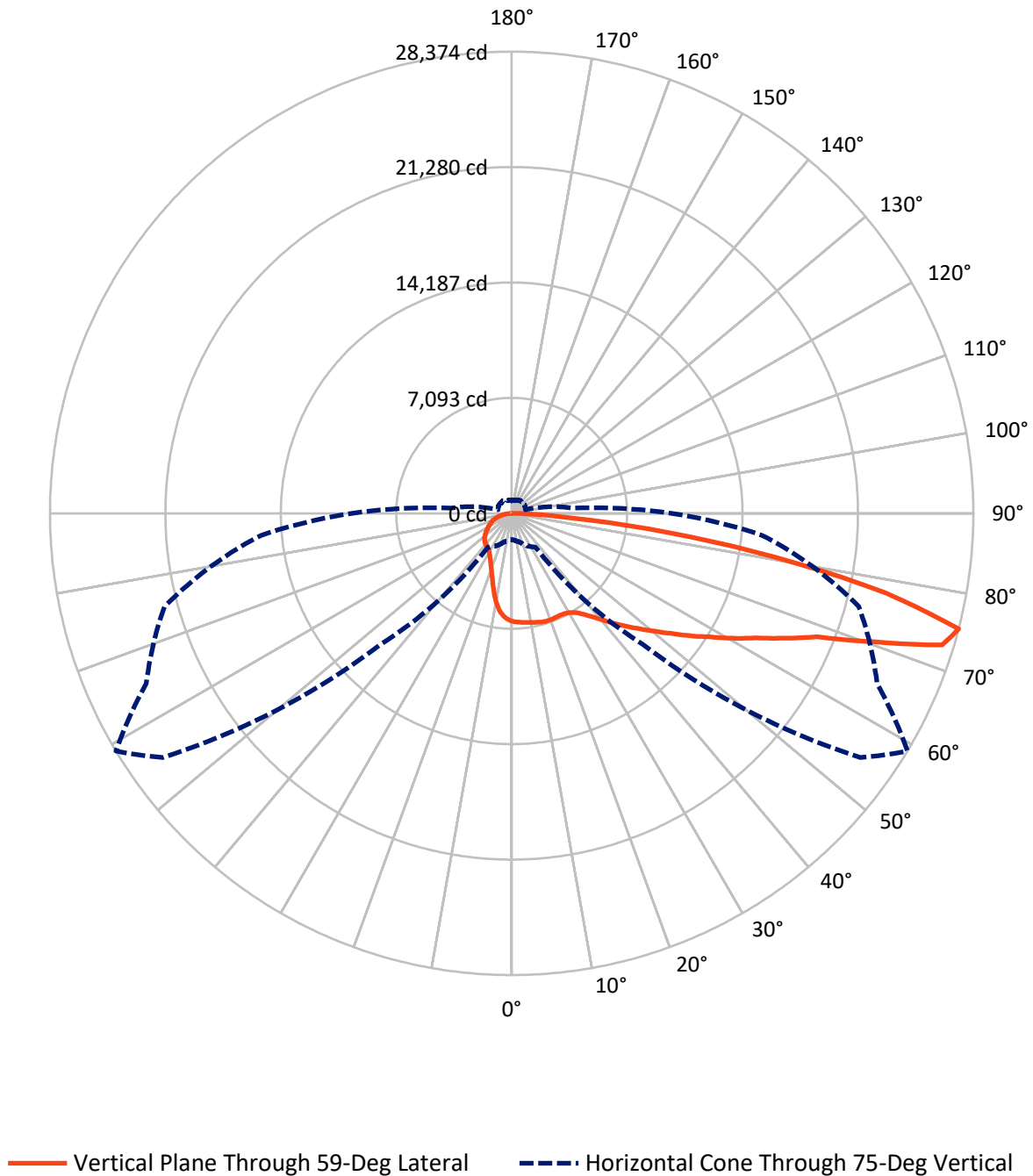
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6787.8	0.0	6787.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	29402.9	0.0	29402.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	36190.7	0.0	36190.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	595.6	1.6
10°-20°	1522.5	4.2
20°-30°	2312.5	6.4
30°-40°	3437.5	9.5
40°-50°	5112.1	14.1
50°-60°	6939.1	19.2
60°-70°	8471.5	23.4
70°-80°	6648.3	18.4
80°-90°	1151.7	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°	36190.7	100.0
0°-180°	36190.7	100.0

Coefficient of Utilization



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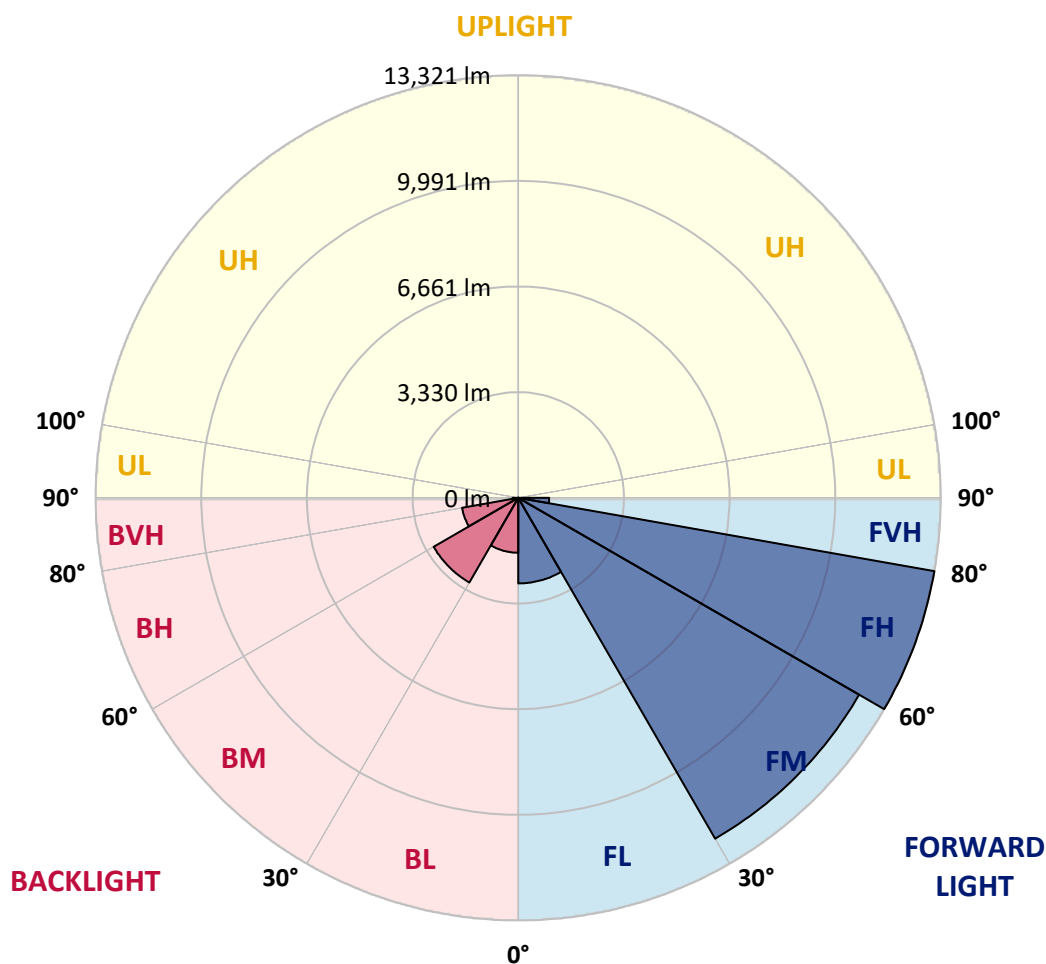
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2698.4	7.5			
FM	(30°-60°)	12407.7	34.3			
FH	(60°-80°)	13321.4	36.8			G5
FVH	(80°-90°)	975.4	2.7			G5
BL	(0°-30°)	1732.2	4.8	B3/2500		
BM	(30°-60°)	3081.0	8.5	B3/5000		
BH	(60°-80°)	1798.4	5.0	B3/2500		G3/2500
BVH	(80°-90°)	176.3	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7
2.5°	6699.2	6675.8	6699.2	6689.5	6685.6	6677.8	6679.7	6693.4	6685.6	6695.3	6662.2
5°	6654.4	6640.8	6664.1	6658.3	6683.6	6687.5	6712.8	6728.4	6738.1	6740.1	6714.8
7.5°	6580.4	6566.8	6599.9	6627.1	6681.7	6697.2	6749.8	6775.1	6788.8	6812.2	6775.1
10°	6309.8	6304.0	6385.7	6489.0	6617.4	6697.2	6777.1	6819.8	6841.3	6903.6	6860.7
12.5°	5830.9	5838.7	5945.7	6144.4	6401.3	6658.3	6808.3	6870.5	6903.6	6981.5	6962.0
15°	5373.4	5371.4	5488.3	5700.4	6060.6	6487.0	6823.7	6930.8	6987.3	7102.2	7086.6
17.5°	5108.6	5100.8	5182.6	5344.1	5679.0	6224.1	6784.9	6964.0	7084.7	7228.7	7215.1
20°	5059.9	5044.3	5087.2	5167.0	5404.5	5936.0	6683.6	6964.0	7162.5	7349.5	7341.7
22.5°	5237.0	5211.8	5194.3	5184.6	5289.6	5698.5	6568.7	6940.6	7277.4	7522.7	7509.0
25°	5593.3	5554.4	5464.9	5377.3	5346.1	5591.4	6467.5	6934.7	7448.8	7756.4	7705.7
27.5°	6169.7	6121.0	5939.9	5729.6	5540.8	5645.9	6422.8	6969.8	7637.6	8003.6	7902.3
30°	6884.1	6831.5	6603.8	6280.6	5941.8	5848.4	6479.2	7073.0	7879.0	8332.6	8134.0
32.5°	7524.6	7466.2	7271.6	6942.5	6485.1	6198.8	6658.3	7269.6	8258.6	8790.1	8482.5
35°	8093.1	8025.0	7849.8	7546.0	7150.8	6691.4	6981.5	7618.1	8797.9	9533.8	8955.6
37.5°	8650.0	8570.1	8379.4	8058.1	7781.6	7347.5	7427.4	8065.9	9514.4	10437.2	9582.5
40°	9273.0	9158.1	8926.4	8609.1	8340.4	8116.5	8013.3	8614.9	10242.5	11445.7	10365.1
42.5°	9876.5	9767.4	9491.0	9220.4	8883.6	8819.3	8692.8	9257.4	11038.7	12553.4	11159.5
45°	10526.7	10396.3	10061.4	9718.7	9506.6	9286.6	9350.9	9899.9	11819.5	13682.6	11992.7
47.5°	11136.1	10990.0	10594.9	10213.3	10096.5	9679.8	9954.4	10606.6	12631.3	14827.3	12818.2
50°	11465.1	11321.0	10992.0	10647.4	10556.0	10164.6	10608.5	11383.3	13482.0	15968.3	13610.6
52.5°	11739.6	11583.8	11153.6	10962.8	10935.6	10692.2	11414.5	12271.1	14332.9	16976.7	14375.7
55°	12031.7	11858.4	11309.3	11138.1	11262.6	11284.0	12370.4	13277.6	15232.3	17959.8	15097.9
57.5°	12368.5	12148.5	11459.3	11286.0	11581.9	11977.1	13468.5	14321.2	16116.2	18871.0	15740.4
60°	12685.8	12463.9	11747.4	11521.6	11926.5	12781.2	14728.1	15584.7	17116.9	19682.9	16347.8
62.5°	12748.1	12565.1	11977.1	11975.2	12393.8	13719.6	16219.4	16859.9	17991.0	20484.9	16893.0
65°	11669.5	11554.7	11206.2	11957.6	13063.5	15070.7	17880.1	18491.4	19102.7	21185.8	17371.9
67.5°	8881.6	8897.2	8871.9	10322.3	12522.3	17011.7	20284.4	20237.7	20475.2	21972.4	17922.8
70°	4061.2	4152.7	4748.4	7125.6	10032.2	17235.7	24259.9	23654.4	22198.2	22990.5	18399.9
72.5°	2194.1	2264.2	2507.6	3451.8	6031.4	15323.9	27230.9	27661.2	24489.7	23675.9	17876.2
75°	1610.1	1649.0	1818.4	2194.1	2532.9	11389.2	26165.9	28373.7	24775.9	22077.5	15436.7
77.5°	1205.1	1222.6	1360.9	1738.6	1296.6	6004.1	20907.4	23498.7	21209.2	18139.0	11402.8
80°	874.1	893.6	996.8	1304.4	909.2	2196.1	14356.3	16493.9	14525.6	11562.5	5682.9
82.5°	603.5	611.3	656.1	887.8	634.7	852.7	8145.7	9672.0	8108.7	4057.3	1534.1
85°	364.1	373.8	393.3	517.8	360.2	405.0	3516.1	3636.8	2423.8	969.5	476.9
87.5°	150.0	159.6	175.2	218.0	142.2	113.0	580.2	728.2	453.7	284.2	148.0
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°	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7	6642.7
2.5°	6652.5	6638.8	6601.8	6551.2	6504.4	6446.1	6420.8	6399.4	6379.9	6342.9	6325.4
5°	6693.4	6656.4	6557.0	6428.6	6282.5	6122.9	5967.1	5860.1	5768.6	5700.4	5644.0
7.5°	6755.7	6685.6	6504.4	6241.6	5906.8	5564.1	5254.6	5034.6	4869.2	4808.8	4703.6
10°	6819.8	6736.2	6420.8	5957.4	5379.2	4851.6	4440.8	4215.0	4082.6	4039.7	3973.5
12.5°	6895.8	6773.2	6290.3	5562.2	4789.3	4211.1	3852.9	3720.4	3652.3	3629.0	3634.9
15°	7006.8	6804.4	6093.7	5067.7	4226.7	3743.8	3512.2	3420.6	3385.6	3383.6	3391.4
17.5°	7090.5	6810.2	5788.1	4538.2	3794.4	3461.5	3270.8	3235.7	3259.1	3294.1	3307.8
20°	7183.9	6757.6	5387.0	4055.3	3490.7	3214.3	3134.4	3157.8	3214.3	3264.9	3282.5
22.5°	7250.1	6662.2	4902.3	3679.5	3227.9	3072.1	3068.2	3116.9	3148.1	3173.4	3187.0
25°	7308.6	6500.5	4388.2	3364.2	3011.9	2986.5	3029.3	3013.7	2992.4	3013.7	3027.3
27.5°	7351.4	6245.5	3928.8	3087.7	2860.0	2928.1	2902.8	2867.7	2865.8	2877.5	2897.0
30°	7337.8	5904.8	3551.1	2824.9	2752.8	2819.1	2758.7	2752.8	2747.0	2752.8	2774.3
32.5°	7337.8	5517.5	3261.0	2643.9	2684.8	2659.5	2653.6	2640.0	2616.6	2614.7	2640.0
35°	7378.7	5130.0	3011.9	2546.5	2628.3	2567.9	2571.8	2538.7	2490.0	2466.7	2490.0
37.5°	7462.3	4818.5	2764.5	2499.8	2529.0	2527.0	2511.5	2455.0	2369.4	2295.4	2320.7
40°	7664.8	4727.0	2595.2	2478.3	2482.2	2505.6	2464.7	2355.8	2161.0	2040.4	2055.9
42.5°	7982.2	4880.8	2558.2	2425.8	2451.1	2474.5	2394.6	2141.5	2003.4	1931.3	1931.3
45°	8385.2	5149.5	2638.0	2349.9	2377.2	2418.0	2180.5	2059.8	1997.5	1999.5	2009.2
47.5°	8895.3	5431.8	2786.0	2283.7	2270.1	2293.4	2038.4	1964.4	1878.7	1900.1	1954.7
50°	9485.1	5718.0	2926.2	2194.1	2151.3	2075.3	1946.9	1876.8	1767.7	1717.2	1730.8
52.5°	10123.7	5994.4	2982.6	2085.1	2022.8	1935.2	1884.6	1798.9	1666.5	1582.8	1580.9
55°	10729.2	6245.5	2920.3	1954.7	1894.3	1826.1	1818.4	1765.8	1623.7	1506.9	1506.9
57.5°	11301.5	6455.9	2764.5	1822.2	1763.8	1723.0	1775.5	1750.2	1571.1	1421.3	1413.5
60°	11786.4	6599.9	2538.7	1688.0	1647.1	1625.6	1705.5	1697.7	1497.1	1329.7	1323.9
62.5°	12171.9	6656.4	2289.5	1559.4	1549.7	1510.7	1608.1	1608.1	1403.7	1240.1	1234.3
65°	12473.6	6601.8	2036.5	1432.8	1452.3	1394.0	1489.3	1477.6	1304.4	1160.3	1152.5
67.5°	12740.3	6422.8	1756.0	1308.3	1353.1	1279.1	1364.8	1337.5	1195.4	1080.6	1072.8
70°	12859.0	6006.1	1436.7	1183.7	1238.2	1166.1	1240.1	1189.5	1072.8	994.9	979.3
72.5°	11905.1	4991.8	1131.1	1053.3	1100.0	1041.6	1105.9	1047.4	940.3	905.3	876.1
75°	9849.2	3745.8	870.2	911.1	946.2	901.4	944.2	901.4	804.0	829.3	757.4
77.5°	7152.8	2529.0	665.8	761.3	776.8	753.5	790.5	741.8	654.2	648.3	619.1
80°	3557.0	1481.5	521.7	601.6	595.7	580.2	623.0	599.6	525.6	556.8	550.9
82.5°	1029.9	634.7	379.7	422.5	410.8	414.7	445.9	457.6	685.3	679.5	695.1
85°	323.2	249.2	227.8	235.5	223.9	229.7	262.8	521.7	482.8	282.3	305.7
87.5°	83.7	85.7	56.5	60.4	62.3	74.0	83.7	317.3	151.9	99.3	105.2
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)