

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: P970356

Luminaire Tested: **NAV-SB6B-735-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970356
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-735-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 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: 34207.3 lumens
Efficiency: N/A
Efficacy: 155.2 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

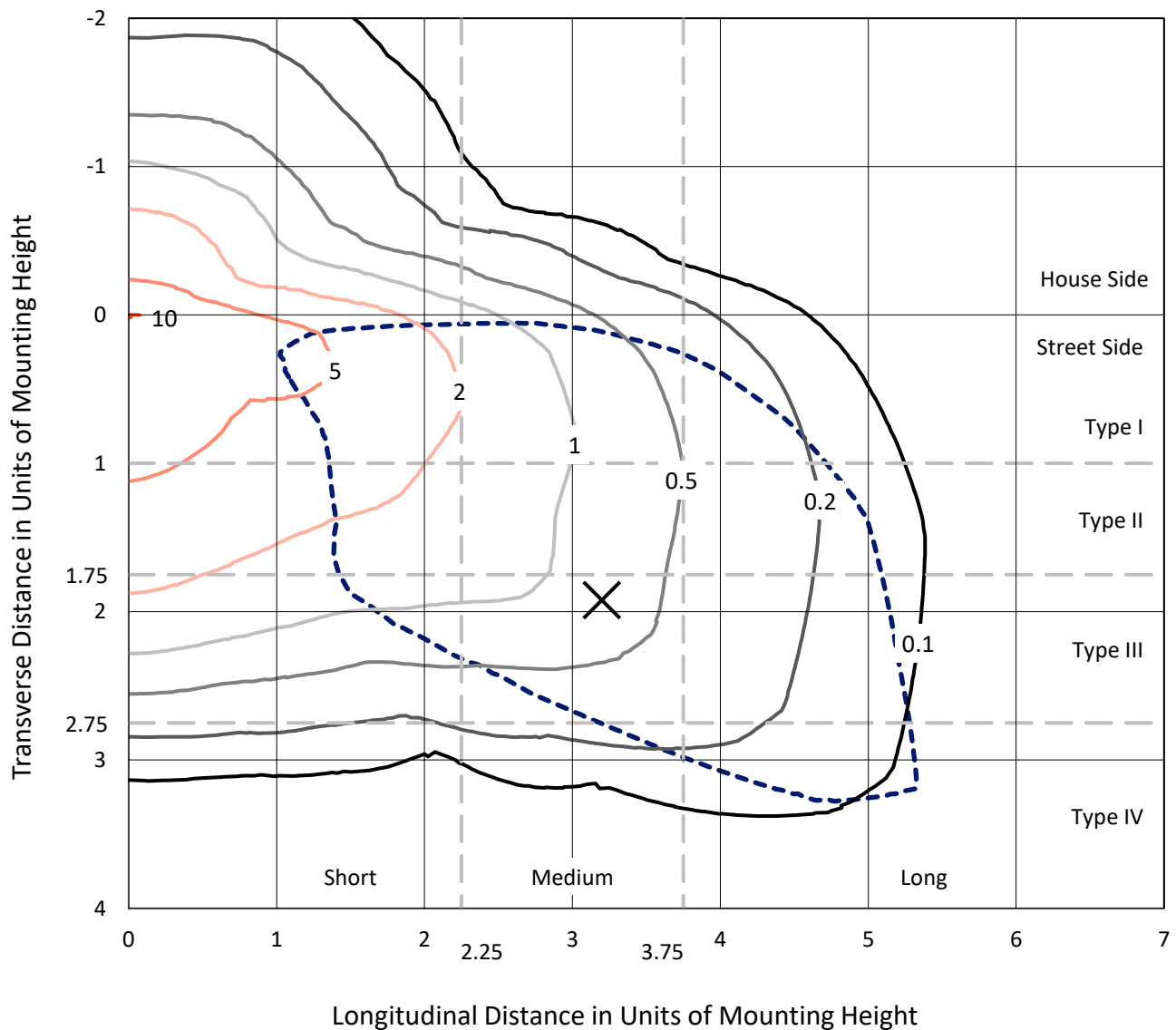


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Iso-Footcandle Lines of Horizontal Illumination

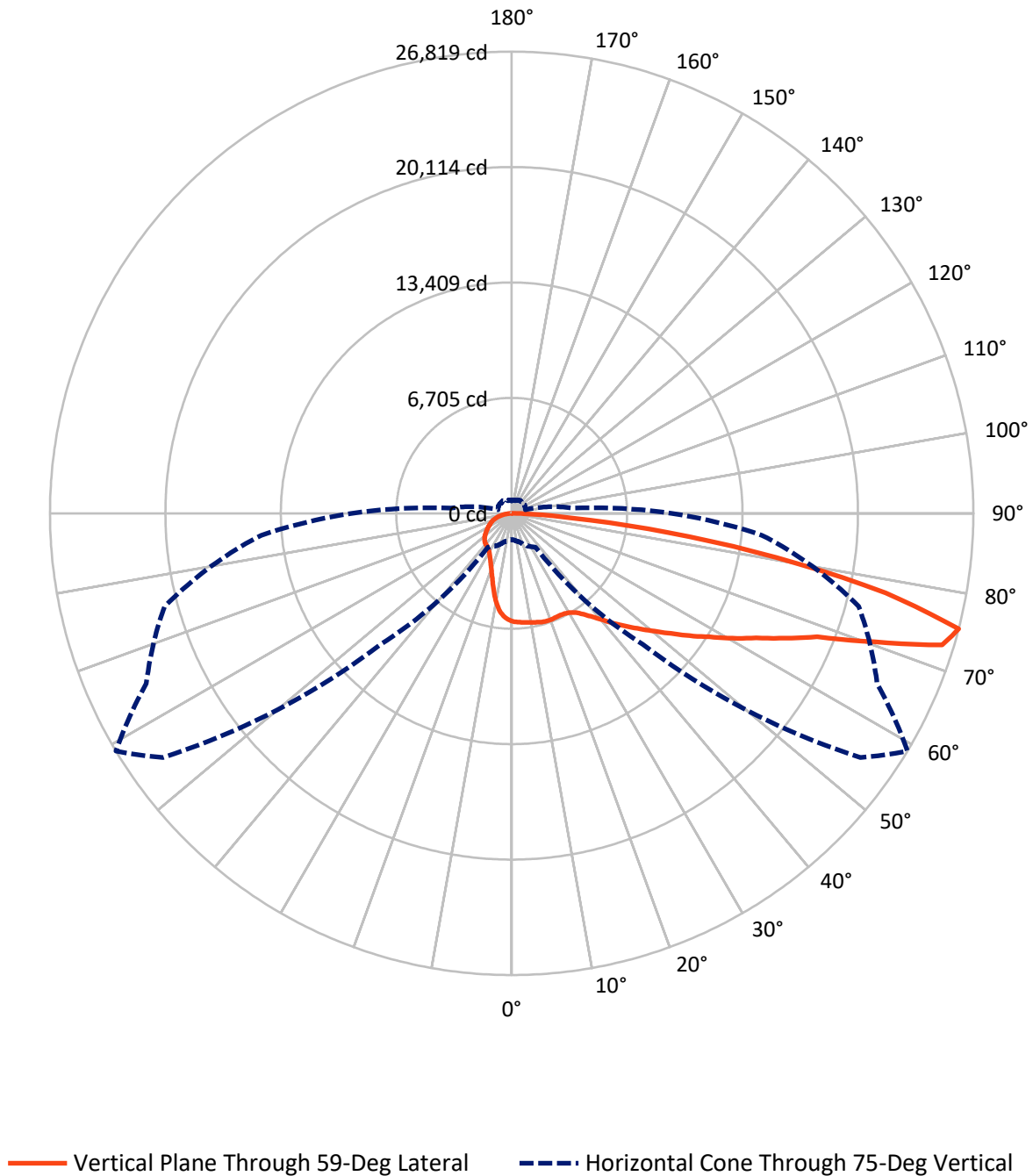
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	6415.8	0.0	6415.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27791.5	0.0	27791.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	34207.3	0.0	34207.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	563.0	1.6
10°-20°	1439.0	4.2
20°-30°	2185.8	6.4
30°-40°	3249.1	9.5
40°-50°	4832.0	14.1
50°-60°	6558.8	19.2
60°-70°	8007.2	23.4
70°-80°	6284.0	18.4
80°-90°	1088.5	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°	34207.3	100.0
0°-180°	34207.3	100.0

Coefficient of Utilization



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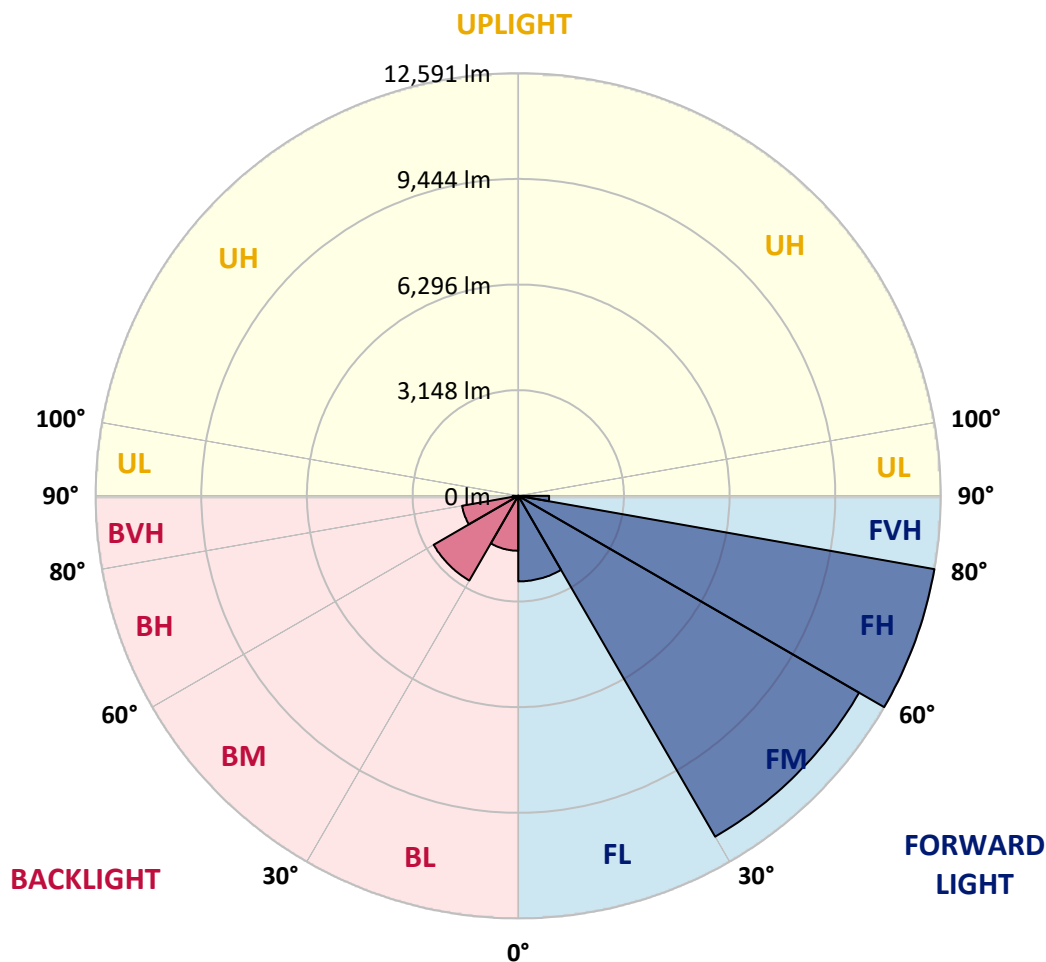
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2550.5	7.5			
FM	(30°-60°)	11727.7	34.3			
FH	(60°-80°)	12591.4	36.8			G5
FVH	(80°-90°)	921.9	2.7			G5
BL	(0°-30°)	1637.2	4.8	B3/2500		
BM	(30°-60°)	2912.1	8.5	B3/5000		
BH	(60°-80°)	1699.8	5.0	B3/2500		G3/2500
BVH	(80°-90°)	166.6	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°	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6
2.5°	6332.0	6310.0	6332.0	6322.8	6319.1	6311.8	6313.7	6326.5	6319.1	6328.3	6297.1
5°	6289.7	6276.8	6298.9	6293.4	6317.3	6321.0	6345.0	6359.6	6368.8	6370.7	6346.8
7.5°	6219.8	6206.9	6238.2	6264.0	6315.4	6330.2	6379.9	6403.8	6416.7	6438.7	6403.8
10°	5964.0	5958.5	6035.8	6133.3	6254.8	6330.2	6405.6	6446.1	6466.4	6525.3	6484.8
12.5°	5511.3	5518.7	5619.9	5807.5	6050.5	6293.4	6435.1	6494.0	6525.3	6598.8	6580.5
15°	5078.9	5077.0	5187.4	5388.0	5728.4	6131.4	6449.8	6551.0	6604.4	6712.9	6698.3
17.5°	4828.6	4821.3	4898.6	5051.3	5367.8	5883.1	6413.0	6582.3	6696.4	6832.5	6819.7
20°	4782.6	4767.9	4808.4	4883.8	5108.3	5610.6	6317.3	6582.3	6770.0	6946.6	6939.2
22.5°	4950.0	4926.2	4909.5	4900.4	4999.7	5386.2	6208.7	6560.2	6878.6	7110.4	7097.5
25°	5286.8	5250.0	5165.4	5082.6	5053.1	5285.0	6113.1	6554.7	7040.5	7331.2	7283.4
27.5°	5831.5	5785.5	5614.3	5415.6	5237.1	5336.5	6070.8	6587.8	7219.0	7564.9	7469.3
30°	6506.9	6457.2	6241.8	5936.4	5616.2	5527.9	6124.1	6685.4	7447.2	7876.0	7688.2
32.5°	7112.3	7057.0	6873.0	6562.0	6129.6	5859.1	6293.4	6871.2	7806.0	8308.3	8017.7
35°	7649.6	7585.2	7419.6	7132.6	6759.0	6324.7	6598.8	7200.6	8315.7	9011.3	8464.8
37.5°	8175.9	8100.5	7920.1	7616.5	7355.2	6944.8	7020.2	7623.8	8992.9	9865.2	9057.3
40°	8764.8	8656.2	8437.2	8137.3	7883.3	7671.7	7574.1	8142.8	9681.1	10818.4	9797.1
42.5°	9335.2	9232.2	8970.9	8715.1	8396.7	8336.0	8216.4	8750.0	10433.8	11865.4	10547.9
45°	9949.8	9826.6	9510.1	9186.2	8985.6	8777.6	8838.4	9357.3	11171.7	12932.7	11335.5
47.5°	10525.8	10387.8	10014.2	9653.6	9543.2	9149.4	9408.8	10025.3	11939.1	14014.8	12115.7
50°	10836.8	10700.6	10389.6	10064.0	9977.5	9607.5	10027.2	10759.5	12743.2	15093.1	12864.7
52.5°	11096.2	10949.0	10542.3	10362.0	10336.3	10106.2	10788.9	11598.6	13547.3	16046.4	13587.8
55°	11372.3	11208.5	10689.6	10527.7	10645.4	10665.6	11692.5	12550.0	14397.6	16975.6	14270.6
57.5°	11690.6	11482.7	10831.3	10667.5	10947.2	11320.7	12730.3	13536.4	15232.9	17836.8	14877.8
60°	11990.6	11780.8	11103.6	10890.1	11272.9	12080.8	13920.9	14730.6	16178.8	18604.2	15452.0
62.5°	12049.5	11876.5	11320.7	11318.9	11714.5	12967.7	15330.5	15935.9	17005.1	19362.4	15967.2
65°	11030.0	10921.5	10592.0	11302.4	12347.6	14244.8	16900.2	17478.0	18055.8	20024.8	16419.9
67.5°	8394.9	8409.6	8385.7	9756.6	11836.0	16079.5	19172.8	19128.7	19353.1	20768.2	16940.7
70°	3838.6	3925.1	4488.2	6735.1	9482.4	16291.0	22930.4	22358.1	20981.6	21730.6	17391.5
72.5°	2073.9	2140.1	2370.1	3262.7	5700.8	14484.1	25738.6	26145.2	23147.6	22378.4	16896.5
75°	1521.8	1558.6	1718.7	2073.9	2394.1	10765.1	24731.9	26818.7	23418.1	20867.6	14590.8
77.5°	1139.1	1155.6	1286.3	1643.3	1225.6	5675.1	19761.7	22210.9	20046.8	17144.9	10777.9
80°	826.3	844.6	942.2	1232.9	859.4	2075.7	13569.5	15589.9	13729.6	10928.8	5371.5
82.5°	570.4	577.8	620.1	839.2	599.9	806.0	7699.3	9142.0	7664.3	3834.9	1450.1
85°	344.1	353.3	371.7	489.4	340.4	382.7	3323.4	3437.4	2291.0	916.5	450.8
87.5°	141.7	150.9	165.6	206.1	134.4	106.7	548.4	688.2	428.8	268.7	139.8
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°	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6	6278.6
2.5°	6287.9	6274.9	6240.0	6192.2	6148.1	6092.8	6068.9	6048.6	6030.3	5995.3	5978.7
5°	6326.5	6291.6	6197.7	6076.3	5938.2	5787.4	5640.2	5538.9	5452.5	5388.0	5334.7
7.5°	6385.4	6319.1	6148.1	5899.6	5583.1	5259.2	4966.6	4758.7	4602.2	4545.3	4445.8
10°	6446.1	6367.0	6068.9	5630.9	5084.4	4585.7	4197.5	3984.0	3858.8	3818.3	3755.8
12.5°	6517.9	6401.9	5945.6	5257.4	4526.8	3980.3	3641.7	3516.6	3452.2	3430.1	3435.6
15°	6622.8	6431.4	5759.8	4789.9	3995.0	3538.6	3319.7	3233.2	3200.0	3198.2	3205.6
17.5°	6702.0	6436.9	5470.8	4289.4	3586.5	3271.8	3091.5	3058.4	3080.4	3113.5	3126.5
20°	6790.2	6387.3	5091.8	3833.1	3299.5	3038.1	2962.7	2984.8	3038.1	3086.0	3102.6
22.5°	6852.8	6297.1	4633.5	3477.9	3051.0	2903.8	2900.1	2946.2	2975.6	2999.5	3012.4
25°	6908.0	6144.4	4147.8	3179.9	2846.7	2822.8	2863.3	2848.6	2828.4	2848.6	2861.5
27.5°	6948.5	5903.3	3713.5	2918.5	2703.2	2767.6	2743.7	2710.6	2708.8	2719.7	2738.2
30°	6935.7	5581.2	3356.5	2670.1	2602.0	2664.6	2607.5	2602.0	2596.5	2602.0	2622.3
32.5°	6935.7	5215.1	3082.3	2499.0	2537.6	2513.7	2508.2	2495.3	2473.2	2471.4	2495.3
35°	6974.3	4848.9	2846.7	2406.9	2484.2	2427.2	2430.9	2399.6	2353.6	2331.5	2353.6
37.5°	7053.4	4554.5	2613.0	2362.8	2390.4	2388.6	2373.8	2320.5	2239.5	2169.6	2193.5
40°	7244.8	4468.0	2452.9	2342.5	2346.2	2368.3	2329.6	2226.6	2042.6	1928.5	1943.2
42.5°	7544.7	4613.3	2418.0	2292.8	2316.8	2338.8	2263.4	2024.2	1893.6	1825.4	1825.4
45°	7925.6	4867.3	2493.4	2221.1	2246.9	2285.5	2061.0	1946.9	1888.0	1889.9	1899.0
47.5°	8407.8	5134.1	2633.3	2158.5	2145.6	2167.8	1926.7	1856.8	1775.8	1796.0	1847.6
50°	8965.4	5404.6	2765.8	2073.9	2033.4	1961.6	1840.2	1774.0	1670.9	1623.0	1635.9
52.5°	9568.9	5665.9	2819.2	1970.9	1911.9	1829.1	1781.2	1700.4	1575.2	1496.1	1494.2
55°	10141.2	5903.3	2760.2	1847.6	1790.5	1726.1	1718.7	1669.0	1534.7	1424.3	1424.3
57.5°	10682.2	6102.0	2613.0	1722.4	1667.2	1628.5	1678.2	1654.4	1485.0	1343.4	1336.0
60°	11140.4	6238.2	2399.6	1595.4	1556.8	1536.6	1612.0	1604.6	1415.1	1256.9	1251.3
62.5°	11504.8	6291.6	2164.1	1473.9	1464.8	1427.9	1520.0	1520.0	1326.8	1172.2	1166.7
65°	11790.0	6240.0	1924.8	1354.3	1372.8	1317.5	1407.7	1396.7	1232.9	1096.8	1089.4
67.5°	12042.1	6070.8	1659.9	1236.6	1278.9	1209.0	1290.0	1264.2	1129.9	1021.3	1013.9
70°	12154.3	5677.0	1358.0	1118.8	1170.3	1102.3	1172.2	1124.3	1013.9	940.3	925.6
72.5°	11252.7	4718.2	1069.2	995.6	1039.7	984.5	1045.2	990.0	888.8	855.7	828.1
75°	9309.5	3540.5	822.6	861.2	894.3	852.0	892.5	852.0	760.0	783.9	715.9
77.5°	6760.8	2390.4	629.3	719.6	734.2	712.2	747.1	701.1	618.3	612.7	585.2
80°	3362.0	1400.4	493.1	568.6	563.1	548.4	588.9	566.8	496.8	526.3	520.8
82.5°	973.4	599.9	358.9	399.3	388.3	392.0	421.4	432.4	647.7	642.3	656.9
85°	305.4	235.5	215.2	222.6	211.7	217.1	248.5	493.1	456.3	266.8	288.9
87.5°	79.1	81.0	53.4	57.1	58.8	69.9	79.1	299.9	143.5	93.9	99.3
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)