

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: P971596

Luminaire Tested: **NAV-SB6D-835-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971596
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-SB6D-835-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57337.5 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

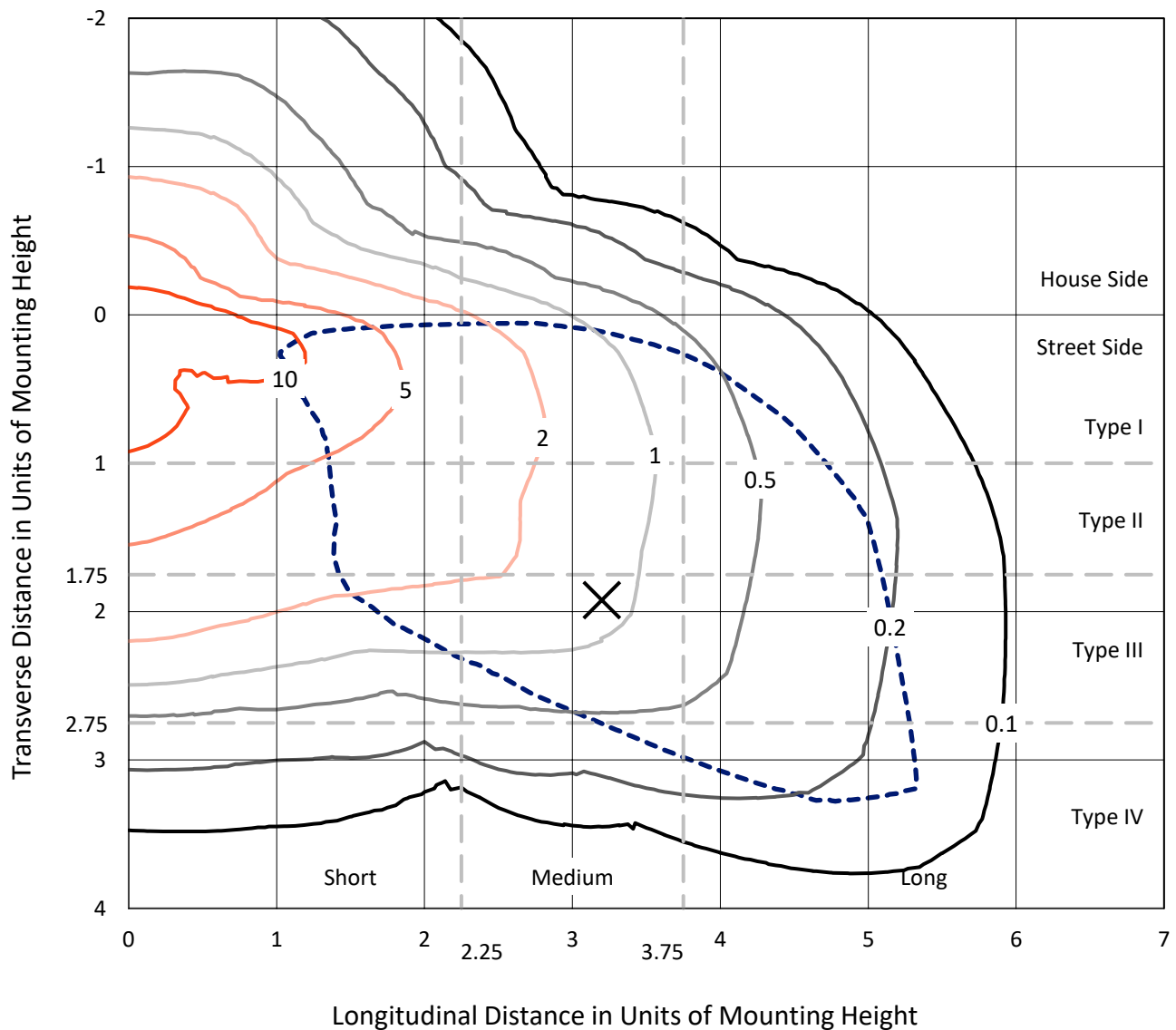
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

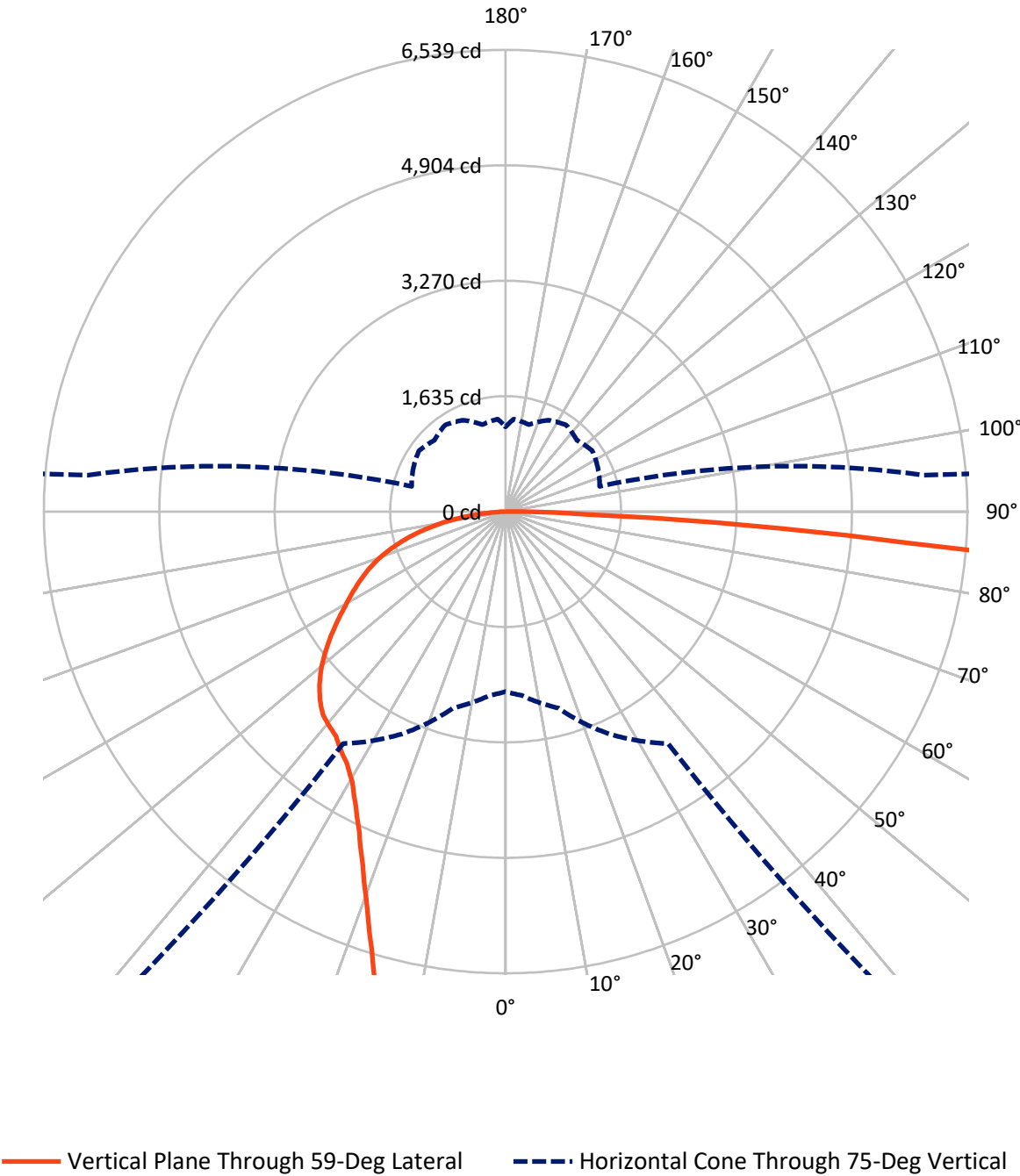
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 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	10754.0	0.0	10754.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	46583.4	0.0	46583.4
	% Fixture	81.2	0.0	81.2
Total	Lumens	57337.5	0.0	57337.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	943.7	1.6
10°-20°	2412.1	4.2
20°-30°	3663.7	6.4
30°-40°	5446.0	9.5
40°-50°	8099.2	14.1
50°-60°	10993.7	19.2
60°-70°	13421.5	23.4
70°-80°	10533.0	18.4
80°-90°	1824.6	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°	57337.5	100.0
0°-180°	57337.5	100.0

Coefficient of Utilization



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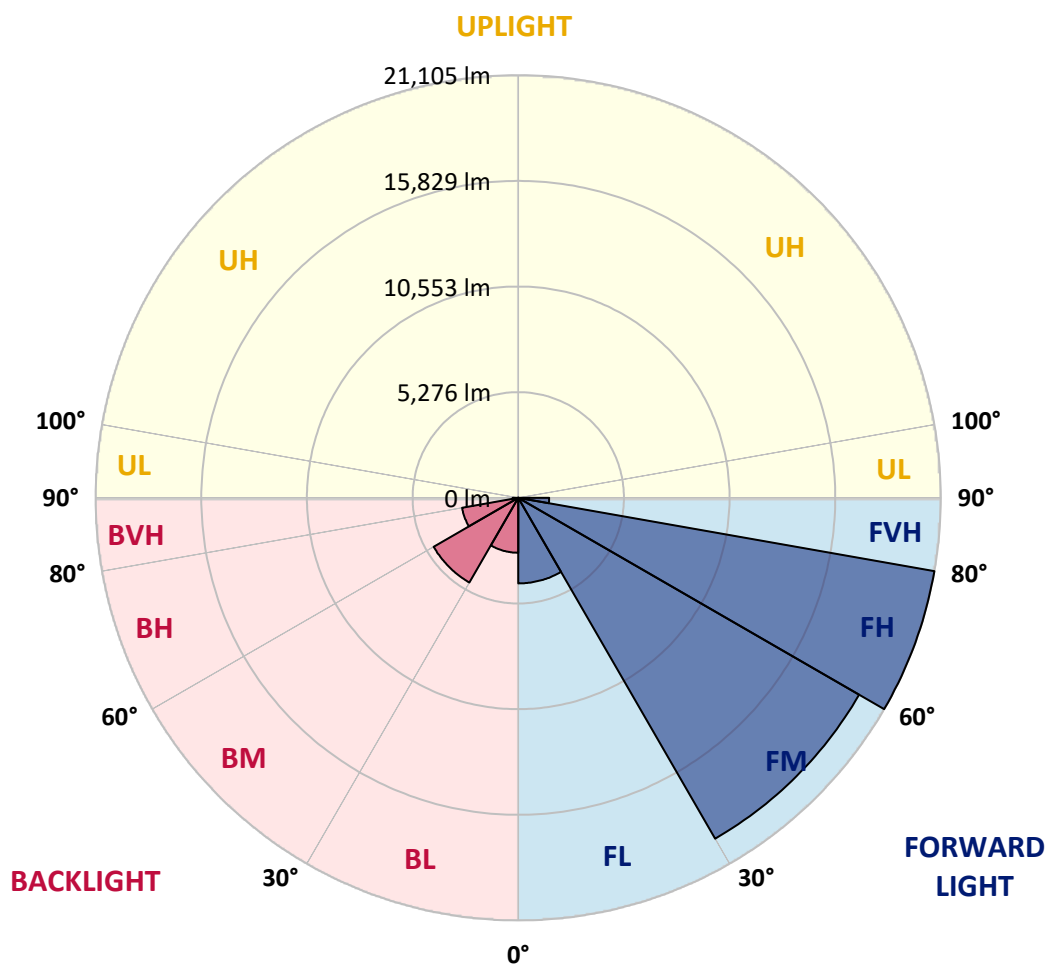
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4275.1	7.5			
FM	(30°-60°)	19657.7	34.3			
FH	(60°-80°)	21105.4	36.8			G5
FVH	(80°-90°)	1545.3	2.7			G5
BL	(0°-30°)	2744.3	4.8	B4/5000		
BM	(30°-60°)	4881.3	8.5	B3/5000		
BH	(60°-80°)	2849.2	5.0	B4/5000		G4/5000
BVH	(80°-90°)	279.3	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2
2.5°	10613.6	10576.6	10613.6	10598.2	10592.0	10579.6	10582.8	10604.3	10592.0	10607.4	10555.0
5°	10542.6	10521.1	10558.1	10548.9	10589.0	10595.1	10635.2	10659.9	10675.3	10678.3	10638.3
7.5°	10425.5	10403.9	10456.3	10499.5	10585.9	10610.5	10693.8	10733.9	10755.5	10792.5	10733.9
10°	9996.7	9987.5	10117.1	10280.4	10484.1	10610.5	10737.0	10804.8	10838.8	10937.5	10869.6
12.5°	9237.9	9250.3	9420.0	9734.5	10141.7	10548.9	10786.4	10885.1	10937.5	11060.9	11030.0
15°	8513.1	8510.1	8695.1	9031.3	9601.9	10277.4	10811.0	10980.6	11070.1	11252.1	11227.4
17.5°	8093.6	8081.3	8210.9	8466.8	8997.3	9861.0	10749.4	11033.1	11224.4	11452.6	11431.0
20°	8016.5	7991.8	8059.7	8186.2	8562.4	9404.5	10589.0	11033.1	11347.7	11643.8	11631.5
22.5°	8297.2	8257.1	8229.3	8213.9	8380.5	9028.2	10406.9	10996.1	11529.7	11918.3	11896.8
25°	8861.6	8799.9	8658.1	8519.3	8469.9	8858.6	10246.5	10986.9	11801.1	12288.5	12208.3
27.5°	9774.6	9697.5	9410.6	9077.6	8778.4	8945.0	10175.6	11042.3	12100.3	12680.2	12519.8
30°	10906.6	10823.4	10462.5	9950.5	9413.8	9265.7	10265.1	11205.8	12482.8	13201.5	12886.8
32.5°	11921.5	11828.9	11520.5	10999.2	10274.3	9820.9	10548.9	11517.3	13084.2	13926.4	13439.0
35°	12822.1	12714.1	12436.5	11955.4	11329.2	10601.3	11060.9	12069.5	13938.7	15104.6	14188.5
37.5°	13704.2	13577.8	13275.5	12766.6	12328.6	11640.7	11767.2	12778.9	15073.8	16535.8	15181.7
40°	14691.2	14509.3	14142.2	13639.5	13213.8	12859.1	12695.6	13648.7	16227.3	18133.5	16421.6
42.5°	15647.4	15474.7	15036.7	14608.0	14074.4	13972.6	13772.1	14666.6	17488.9	19888.6	17680.1
45°	16677.7	16471.0	15940.5	15397.7	15061.5	14712.8	14814.6	15684.4	18725.7	21677.5	19000.2
47.5°	17643.1	17411.8	16785.6	16181.1	15995.9	15335.9	15770.9	16804.2	20012.0	23491.3	20308.0
50°	18164.3	17936.1	17414.9	16868.9	16723.9	16104.0	16807.2	18034.8	21359.9	25298.7	21563.4
52.5°	18599.2	18352.5	17670.9	17368.6	17325.4	16939.9	18084.2	19441.4	22707.7	26896.4	22775.6
55°	19061.9	18787.4	17917.6	17646.2	17843.6	17877.5	19598.6	21036.0	24132.8	28454.1	23919.9
57.5°	19595.5	19247.0	18155.1	17880.6	18349.4	18975.6	21338.2	22689.3	25533.2	29897.6	24937.8
60°	20098.3	19746.7	18611.6	18253.8	18895.4	20249.5	23333.9	24691.1	27118.5	31183.9	25900.2
62.5°	20197.0	19907.0	18975.6	18972.4	19635.6	21736.1	25696.6	26711.4	28503.5	32454.7	26763.9
65°	18488.2	18306.3	17754.1	18944.8	20696.7	23876.8	28327.6	29296.1	30264.7	33565.1	27522.6
67.5°	14071.3	14096.0	14055.8	16353.8	19839.2	26952.0	32136.9	32062.9	32439.2	34811.2	28395.5
70°	6434.1	6579.2	7523.0	11289.1	15894.2	27306.7	38435.4	37476.2	35169.0	36424.3	29151.2
72.5°	3476.2	3587.2	3972.8	5468.8	9555.7	24277.7	43142.2	43824.0	38799.4	37510.1	28321.5
75°	2550.8	2612.5	2880.9	3476.2	4012.9	18044.1	41455.1	44952.9	39252.8	34977.7	24456.7
77.5°	1909.3	1937.0	2156.0	2754.4	2054.2	9512.5	33124.0	37229.4	33602.1	28737.9	18065.6
80°	1384.9	1415.7	1579.2	2066.6	1440.4	3479.3	22744.7	26131.6	23013.1	18318.6	9003.5
82.5°	956.2	968.5	1039.5	1406.5	1005.5	1350.9	12905.4	15323.5	12846.7	6428.0	2430.6
85°	576.8	592.2	623.1	820.5	570.6	641.5	5570.6	5761.7	3840.2	1536.1	755.7
87.5°	237.5	253.0	277.6	345.4	225.2	178.9	919.1	1153.6	718.6	450.3	234.4
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°	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2	10524.2
2.5°	10539.6	10518.0	10459.4	10379.2	10305.1	10212.6	10172.5	10138.6	10107.7	10049.2	10021.4
5°	10604.3	10545.7	10388.5	10184.9	9953.6	9700.6	9453.9	9284.2	9139.2	9031.3	8941.8
7.5°	10703.0	10592.0	10305.1	9888.8	9358.2	8815.4	8324.9	7976.4	7714.3	7618.6	7452.1
10°	10804.8	10672.2	10172.5	9438.4	8522.4	7686.5	7035.6	6677.9	6468.1	6400.2	6295.3
12.5°	10925.2	10730.8	9965.9	8812.3	7587.8	6671.7	6104.2	5894.4	5786.4	5749.4	5758.7
15°	11101.0	10780.1	9654.4	8028.8	6696.3	5931.4	5564.3	5419.4	5363.8	5360.7	5373.2
17.5°	11233.6	10789.5	9170.1	7189.9	6011.6	5484.2	5181.9	5126.3	5163.3	5218.9	5240.5
20°	11381.6	10706.1	8534.7	6424.9	5530.4	5092.4	4966.0	5003.0	5092.4	5172.7	5200.4
22.5°	11486.6	10555.0	7766.6	5829.6	5114.0	4867.3	4861.1	4938.2	4987.5	5027.6	5049.3
25°	11579.0	10299.0	6952.4	5329.9	4771.7	4731.6	4799.5	4774.8	4740.8	4774.8	4796.3
27.5°	11646.9	9894.9	6224.4	4891.9	4531.1	4639.0	4599.0	4543.4	4540.3	4558.8	4589.6
30°	11625.3	9355.2	5626.0	4475.6	4361.4	4466.3	4370.7	4361.4	4352.2	4361.4	4395.3
32.5°	11625.3	8741.3	5166.5	4188.7	4253.4	4213.4	4204.1	4182.5	4145.5	4142.4	4182.5
35°	11690.1	8127.5	4771.7	4034.5	4164.1	4068.4	4074.6	4022.1	3945.0	3908.0	3945.0
37.5°	11822.8	7634.0	4379.9	3960.4	4006.7	4003.6	3978.9	3889.5	3753.8	3636.6	3676.7
40°	12143.5	7489.1	4111.6	3926.5	3932.7	3969.7	3904.9	3732.2	3423.7	3232.5	3257.1
42.5°	12646.2	7732.7	4053.0	3843.2	3883.3	3920.3	3793.8	3392.9	3173.9	3059.8	3059.8
45°	13284.7	8158.4	4179.4	3722.9	3766.2	3830.9	3454.6	3263.4	3164.7	3167.8	3183.1
47.5°	14092.9	8605.6	4413.9	3618.0	3596.5	3633.5	3229.5	3112.2	2976.5	3010.4	3096.8
50°	15027.4	9059.1	4636.0	3476.2	3408.3	3288.0	3084.4	2973.4	2800.7	2720.5	2742.1
52.5°	16039.2	9497.0	4725.4	3303.5	3204.8	3066.0	2985.7	2850.0	2640.3	2507.7	2504.6
55°	16998.4	9894.9	4626.6	3096.8	3001.2	2893.3	2880.9	2797.6	2572.4	2387.3	2387.3
57.5°	17905.3	10228.1	4379.9	2887.0	2794.6	2729.8	2813.0	2772.9	2489.1	2251.6	2239.3
60°	18673.3	10456.3	4022.1	2674.2	2609.4	2575.5	2702.0	2689.6	2372.0	2106.7	2097.5
62.5°	19284.0	10545.7	3627.3	2470.7	2455.2	2393.6	2547.7	2547.7	2223.9	1964.8	1955.5
65°	19762.1	10459.4	3226.4	2270.2	2301.0	2208.5	2359.7	2341.1	2066.6	1838.3	1826.0
67.5°	20184.7	10175.6	2782.2	2072.8	2143.7	2026.5	2162.2	2119.0	1893.9	1711.9	1699.6
70°	20372.8	9515.6	2276.3	1875.3	1961.7	1847.6	1964.8	1884.6	1699.6	1576.1	1551.4
72.5°	18861.4	7908.6	1792.1	1668.7	1742.7	1650.1	1751.9	1659.5	1489.8	1434.3	1388.1
75°	15604.3	5934.5	1378.7	1443.5	1499.1	1428.1	1496.0	1428.1	1273.9	1313.9	1199.9
77.5°	11332.3	4006.7	1054.9	1206.0	1230.7	1193.7	1252.2	1175.2	1036.4	1027.2	980.8
80°	5635.3	2347.2	826.7	953.1	943.8	919.1	987.1	950.0	832.8	882.1	872.9
82.5°	1631.7	1005.5	601.5	669.3	650.8	657.0	706.3	724.9	1085.7	1076.5	1101.2
85°	512.0	394.8	360.9	373.2	354.8	364.0	416.4	826.7	765.0	447.2	484.2
87.5°	132.6	135.7	89.5	95.6	98.7	117.3	132.6	502.8	240.6	157.3	166.6
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)