

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: P971408

Luminaire Tested: **NAV-SB6D-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971408
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB6D-735-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62867.4 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - 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



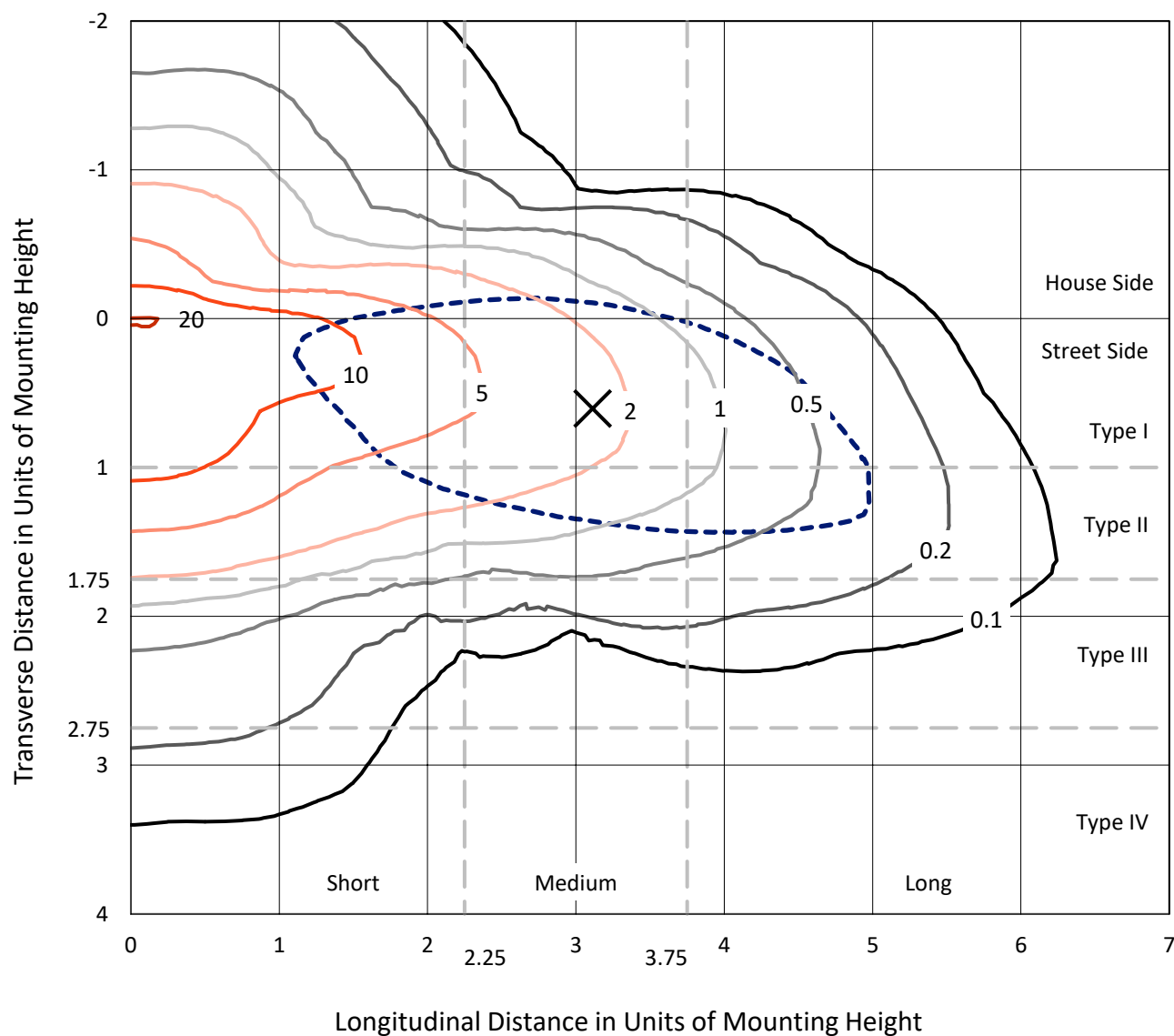
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

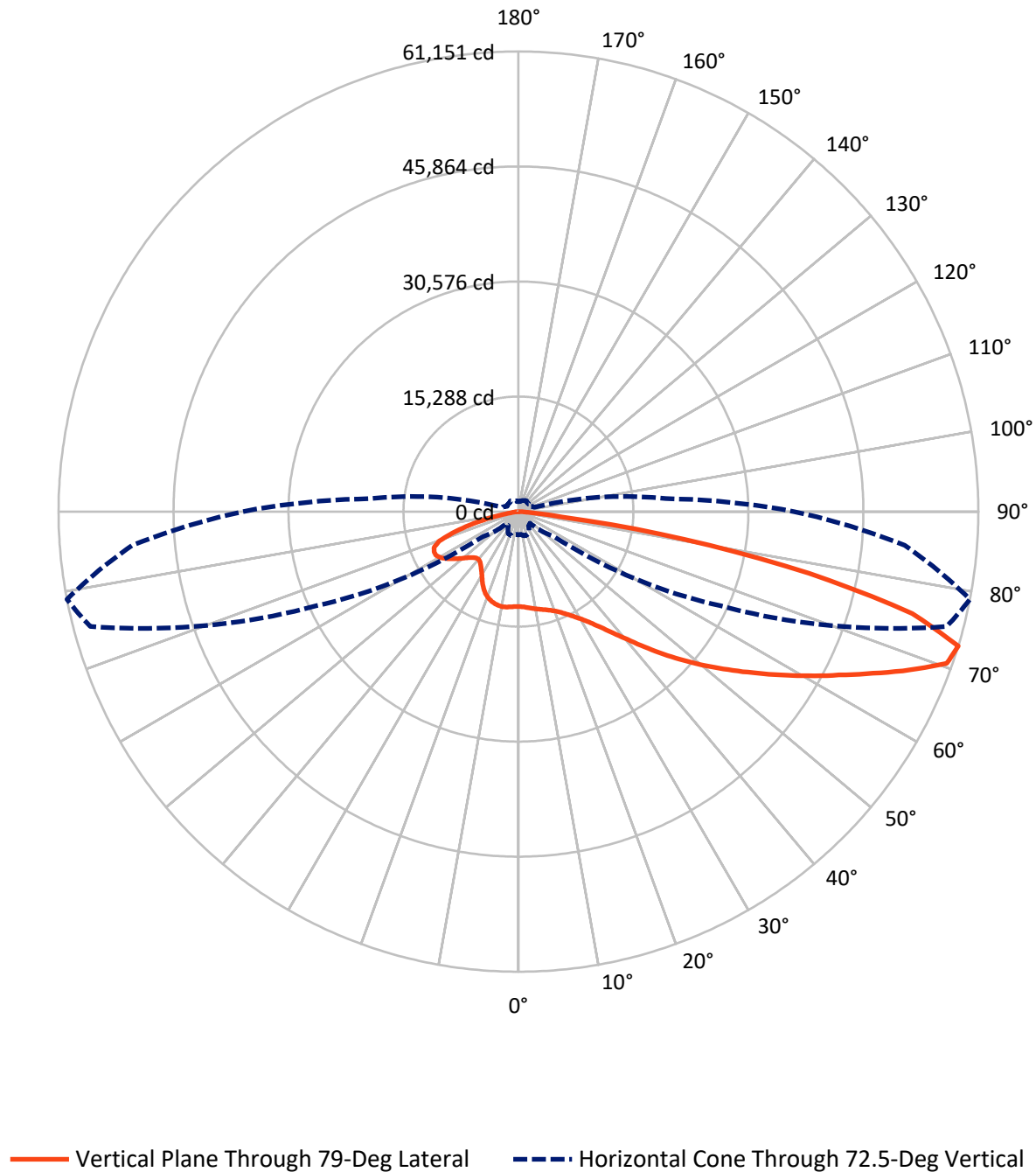
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.3 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13834.3	0.0	13834.3
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	49033.1	0.0	49033.1
	% Fixture	78.0	0.0	78.0
Total	Lumens	62867.4	0.0	62867.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1145.5	1.8
10°-20°	2995.0	4.8
20°-30°	4832.7	7.7
30°-40°	7253.2	11.5
40°-50°	10289.1	16.4
50°-60°	12993.7	20.7
60°-70°	13196.9	21.0
70°-80°	8994.3	14.3
80°-90°	1166.9	1.9
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°	62867.4	100.0
0°-180°	62867.4	100.0

Coefficient of Utilization



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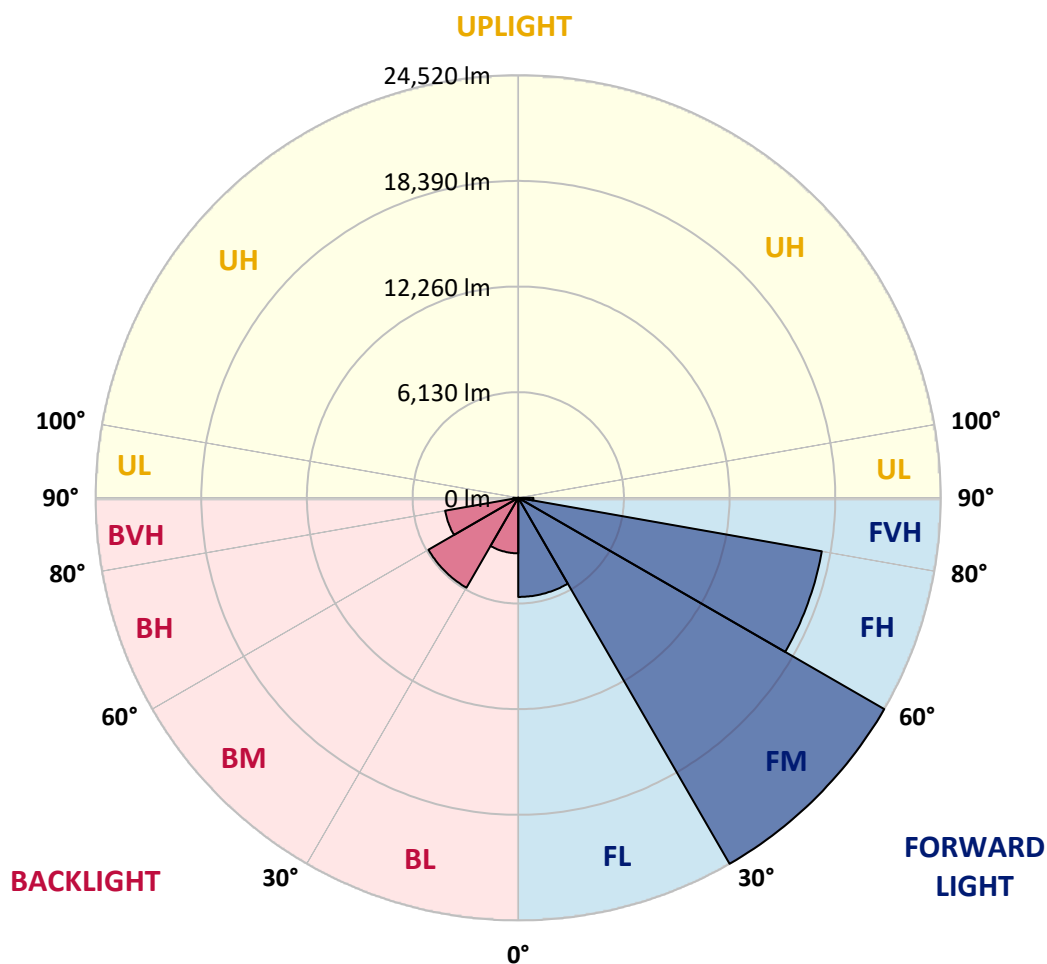
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5750.8	9.1			
FM	(30°-60°)	24519.5	39.0			
FH	(60°-80°)	17883.6	28.4			G5
FVH	(80°-90°)	879.1	1.4			G5
BL	(0°-30°)	3222.4	5.1	B4/5000		
BM	(30°-60°)	6016.5	9.6	B4/8500		
BH	(60°-80°)	4307.5	6.9	B4/5000		G4/5000
BVH	(80°-90°)	287.9	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0
2.5°	12626.7	12566.8	12603.4	12590.1	12606.7	12626.7	12633.3	12643.3	12676.6	12673.2	12669.9
5°	12600.1	12540.3	12590.1	12573.5	12616.7	12663.3	12703.1	12739.7	12792.9	12816.2	12783.0
7.5°	12543.5	12503.7	12553.5	12603.4	12683.2	12753.0	12809.5	12892.8	12969.2	12982.4	13005.8
10°	12214.3	12184.4	12300.8	12430.5	12649.9	12839.5	12962.6	13059.0	13142.1	13155.5	13188.7
12.5°	11871.8	11835.3	11964.9	12141.1	12497.0	12839.5	13098.9	13225.3	13298.5	13341.6	13391.5
15°	11815.3	11785.3	11858.5	12011.5	12307.5	12749.7	13192.0	13424.7	13488.0	13537.9	13557.8
17.5°	12087.9	12031.4	12061.4	12114.6	12287.5	12666.5	13265.1	13651.0	13747.3	13800.6	13800.6
20°	12719.7	12640.0	12593.5	12487.0	12457.0	12679.9	13258.5	13923.6	14050.0	14116.5	14133.1
22.5°	13561.2	13508.0	13408.1	13138.8	12846.1	12842.8	13384.9	14272.7	14508.9	14572.0	14532.1
25°	14578.7	14498.9	14372.6	14006.7	13444.7	13165.4	13597.6	14718.4	15114.1	15130.7	15014.3
27.5°	15749.2	15629.5	15456.6	14974.4	14216.2	13670.8	13923.6	15230.5	15809.1	15802.4	15563.0
30°	16983.0	16863.3	16680.3	16095.1	15140.7	14352.6	14375.8	15782.5	16633.8	16597.2	16188.2
32.5°	17884.2	17794.4	17757.8	17305.6	16204.8	15157.3	14894.6	16394.4	17651.4	17618.1	17046.2
35°	18575.9	18459.5	18502.7	18273.3	17365.4	16058.6	15529.8	17122.6	18888.5	18885.1	18173.5
37.5°	19260.9	19157.9	19194.4	19041.4	18439.5	17202.5	16304.6	18013.9	20421.5	20494.7	19536.9
40°	19886.1	19776.4	19922.7	19779.7	19274.2	18419.6	17185.9	19021.4	22197.3	22336.9	21186.3
42.5°	20261.9	20175.4	20418.2	20421.5	19999.2	19447.1	18153.6	20132.1	24252.4	24564.9	23214.8
45°	20391.6	20361.6	20727.4	20803.9	20640.9	20042.4	19024.8	21342.7	26467.1	27025.8	25526.0
47.5°	20251.8	20195.4	20700.8	20983.5	21113.2	20321.8	19746.4	22652.8	28728.4	29546.4	28046.7
50°	19546.9	19437.2	20188.7	20783.9	21246.2	20504.6	20474.7	24165.9	31299.0	32193.5	30580.7
52.5°	18280.0	18196.8	19051.4	20085.6	20953.6	20594.4	21292.7	25818.6	33739.8	34897.1	33177.8
55°	16660.5	16550.7	17491.8	18842.0	20225.3	20564.5	22110.8	27667.6	36619.7	37793.6	35861.5
57.5°	14093.2	13873.7	15064.2	16660.5	19038.1	20527.9	22962.2	29506.6	39546.0	40952.7	38724.7
60°	10348.7	10022.9	11482.8	13374.9	16716.9	20172.1	24016.3	31568.4	43057.7	44324.7	41850.5
62.5°	6025.7	5836.1	6790.5	8556.4	12600.1	18077.1	24608.2	33965.9	46509.5	47839.7	44923.3
65°	4678.9	4625.7	4708.8	4845.2	7013.4	13534.5	22782.6	36303.8	50899.1	51830.3	48125.7
67.5°	4279.8	4239.9	4276.5	4020.5	3558.2	7538.8	18023.8	36895.7	55601.2	56166.6	50929.1
70°	3804.3	3757.8	3877.5	3658.0	2800.0	3428.5	11645.6	34747.5	59342.4	60403.1	53060.7
72.5°	3099.3	3046.1	3325.4	3225.7	2357.7	2201.4	5849.5	29642.9	58950.0	61151.4	51534.2
75°	2381.0	2351.0	2683.7	2766.8	1922.1	1732.6	2806.7	22034.3	51876.8	54094.9	44414.5
77.5°	1848.9	1825.6	1995.3	2297.8	1549.7	1343.5	1725.9	13976.8	39093.8	39482.9	30607.3
80°	1386.7	1320.2	1476.5	1779.1	1207.1	981.0	1170.6	8150.6	24711.3	22400.1	13321.7
82.5°	868.0	834.7	964.4	1187.2	851.3	675.1	761.6	4502.6	9903.1	5832.8	2570.6
85°	495.5	482.2	525.4	678.3	462.3	389.1	435.6	1988.6	1809.0	1243.7	774.8
87.5°	199.6	192.9	239.4	302.6	169.6	143.0	152.9	478.9	399.0	369.1	256.0
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°	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0	12620.0
2.5°	12656.6	12656.6	12610.1	12536.9	12453.7	12400.6	12314.0	12290.8	12201.0	12174.4	12217.7
5°	12809.5	12783.0	12640.0	12433.8	12151.2	11891.7	11605.8	11426.2	11173.4	11083.6	11150.2
7.5°	13002.4	12929.2	12683.2	12230.9	11639.0	11057.1	10451.8	9992.9	9553.9	9397.7	9417.6
10°	13178.7	13075.6	12656.6	11865.2	10840.9	9833.3	8868.9	8193.8	7681.8	7472.2	7518.8
12.5°	13354.9	13165.4	12480.4	11256.6	9707.0	8340.2	7312.7	6787.2	6471.3	6218.6	6301.7
15°	13521.2	13255.2	12207.6	10441.9	8463.2	7076.5	6318.3	5899.3	5646.6	5480.3	5510.2
17.5°	13714.1	13331.7	11798.7	9407.7	7279.3	6202.0	5583.4	5330.7	5280.8	5260.8	5274.1
20°	13983.5	13401.5	11259.9	8250.4	6408.1	5503.6	5184.3	5161.1	5157.7	5147.8	5181.1
22.5°	14272.7	13484.6	10548.3	7199.6	5666.5	5068.0	5011.4	4964.9	4935.0	4931.6	4968.2
25°	14615.3	13511.2	9657.0	6338.3	5034.7	4861.8	4795.3	4725.5	4705.5	4705.5	4725.5
27.5°	14947.8	13421.5	8619.5	5590.0	4678.9	4672.3	4585.7	4562.5	4559.2	4569.1	4595.8
30°	15280.4	13251.8	7588.7	4898.4	4472.7	4472.7	4442.8	4459.4	4472.7	4506.0	4529.3
32.5°	15729.3	13072.2	6727.4	4386.3	4293.1	4259.9	4289.8	4323.0	4336.4	4379.6	4416.2
35°	16387.7	12946.0	6042.3	4106.9	4106.9	4063.7	4080.3	4073.7	4043.7	4023.7	4070.4
37.5°	17259.1	12939.3	5477.0	3977.2	3950.7	3944.0	3947.3	3904.0	3787.7	3648.0	3651.4
40°	18306.5	13118.9	5041.4	3887.4	3867.5	3907.4	3887.4	3771.1	3451.8	3209.1	3202.4
42.5°	19713.2	13631.0	4762.0	3777.7	3837.6	3887.4	3807.7	3405.3	3189.1	3026.1	3019.4
45°	21369.2	14462.3	4619.1	3661.3	3781.0	3840.9	3455.2	3278.9	3106.0	2909.8	2896.4
47.5°	23244.7	15509.8	4585.7	3551.5	3654.6	3691.2	3305.5	3225.7	3029.5	2816.6	2800.0
50°	25286.6	16750.2	4675.5	3421.9	3471.8	3345.4	3255.6	3182.4	2979.6	2770.1	2746.8
52.5°	27398.2	18117.0	4855.1	3245.7	3288.8	3149.2	3235.6	3172.5	2949.6	2666.9	2647.1
55°	29473.4	19493.7	5028.0	3039.4	3102.7	2972.9	3179.1	3132.6	2813.3	2494.0	2477.4
57.5°	31581.7	20863.8	5197.7	2856.6	2923.1	2803.4	3089.4	3026.1	2660.4	2334.4	2327.8
60°	33773.1	22193.9	5277.4	2680.3	2726.8	2647.1	2953.0	2843.2	2487.5	2171.5	2161.5
62.5°	35824.9	23301.3	5147.8	2504.1	2534.0	2500.7	2773.4	2627.1	2314.6	1988.6	1985.3
65°	37883.4	23959.8	4748.7	2331.2	2337.8	2321.1	2520.7	2394.3	2111.6	1829.0	1809.0
67.5°	39748.9	24328.9	4113.5	2144.9	2128.3	2121.6	2284.6	2141.5	1915.4	1669.4	1649.4
70°	40144.6	23391.1	3142.5	1925.5	1925.5	1908.8	2025.2	1878.8	1699.3	1499.8	1493.1
72.5°	36666.2	19676.6	2231.3	1676.0	1702.6	1669.4	1765.8	1642.8	1479.8	1346.8	1306.9
75°	29566.4	14429.0	1622.8	1419.9	1466.5	1410.0	1499.8	1413.3	1273.7	1270.3	1143.9
77.5°	20315.1	8922.1	1177.2	1170.6	1203.8	1130.7	1233.7	1187.2	1060.8	1004.3	941.1
80°	8669.4	3558.2	857.9	904.6	904.6	838.0	957.8	971.0	861.3	834.7	834.7
82.5°	1725.9	1011.0	601.9	621.9	585.3	565.3	678.3	751.5	1037.5	1153.9	1157.2
85°	518.8	372.5	362.4	339.2	299.3	302.6	399.0	754.9	931.1	532.1	458.9
87.5°	143.0	93.1	96.5	76.5	63.1	83.1	136.3	571.9	312.6	133.0	113.1
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)