

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: P971563

Luminaire Tested: **NAV-SB6D-830-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971563
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-830-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 3000K, 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: 56489.8 lumens
Efficiency: N/A
Efficacy: 128.4 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

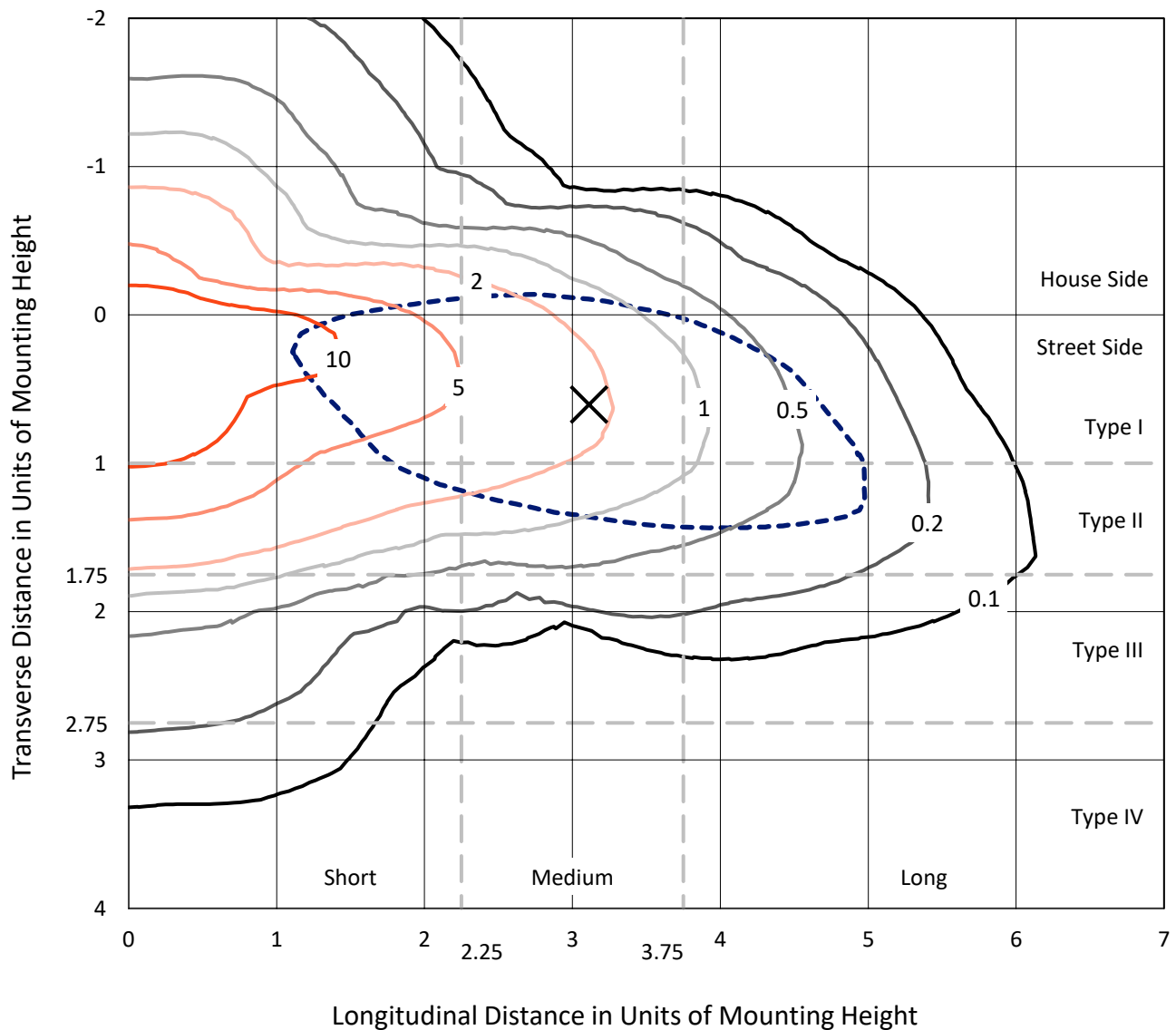


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Iso-Footcandle Lines of Horizontal Illumination

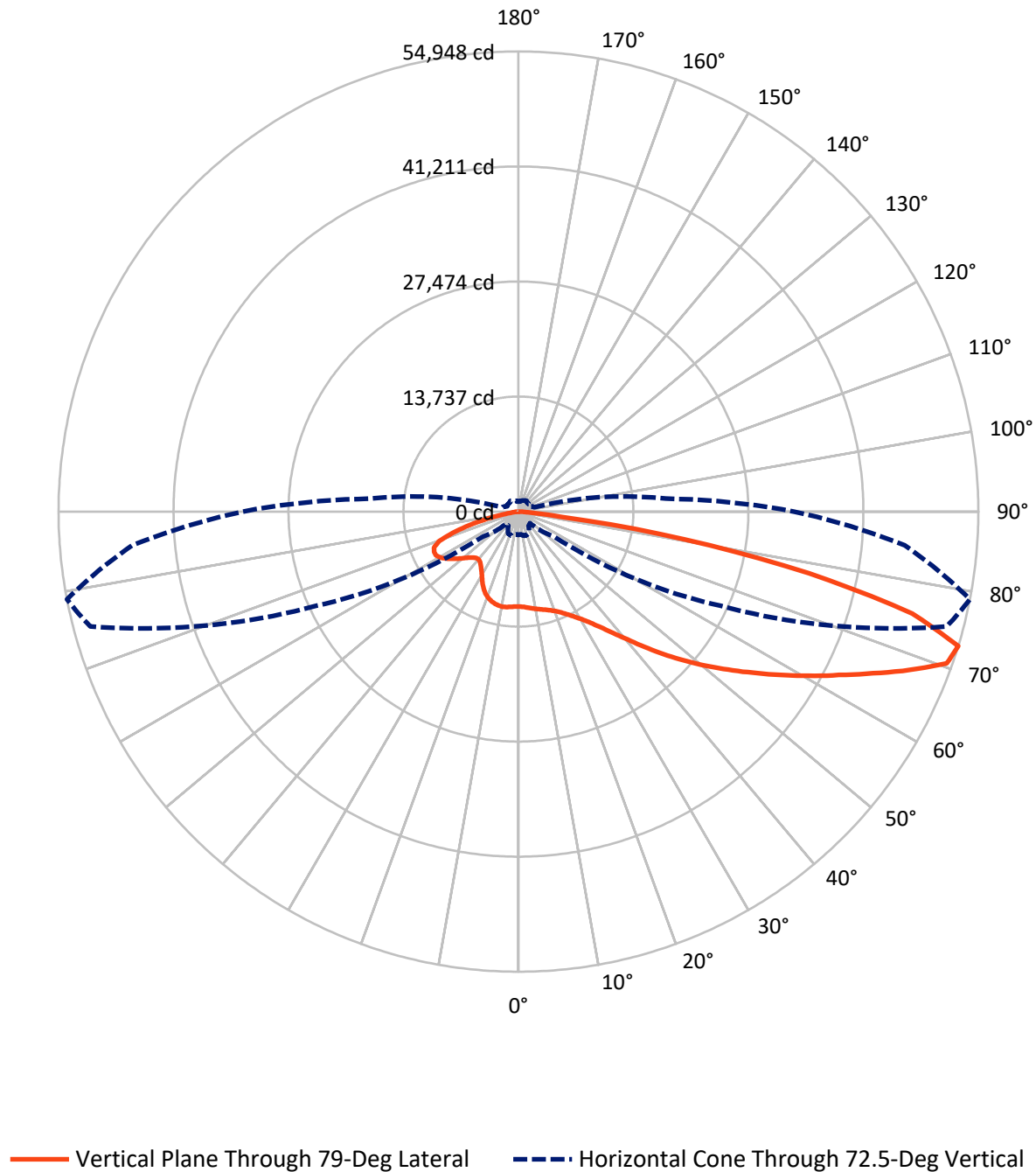
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	12430.9	0.0	12430.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	44058.9	0.0	44058.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	56489.8	0.0	56489.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1029.3	1.8
10°-20°	2691.2	4.8
20°-30°	4342.4	7.7
30°-40°	6517.4	11.5
40°-50°	9245.3	16.4
50°-60°	11675.6	20.7
60°-70°	11858.1	21.0
70°-80°	8081.9	14.3
80°-90°	1048.5	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°	56489.8	100.0
0°-180°	56489.8	100.0

Coefficient of Utilization



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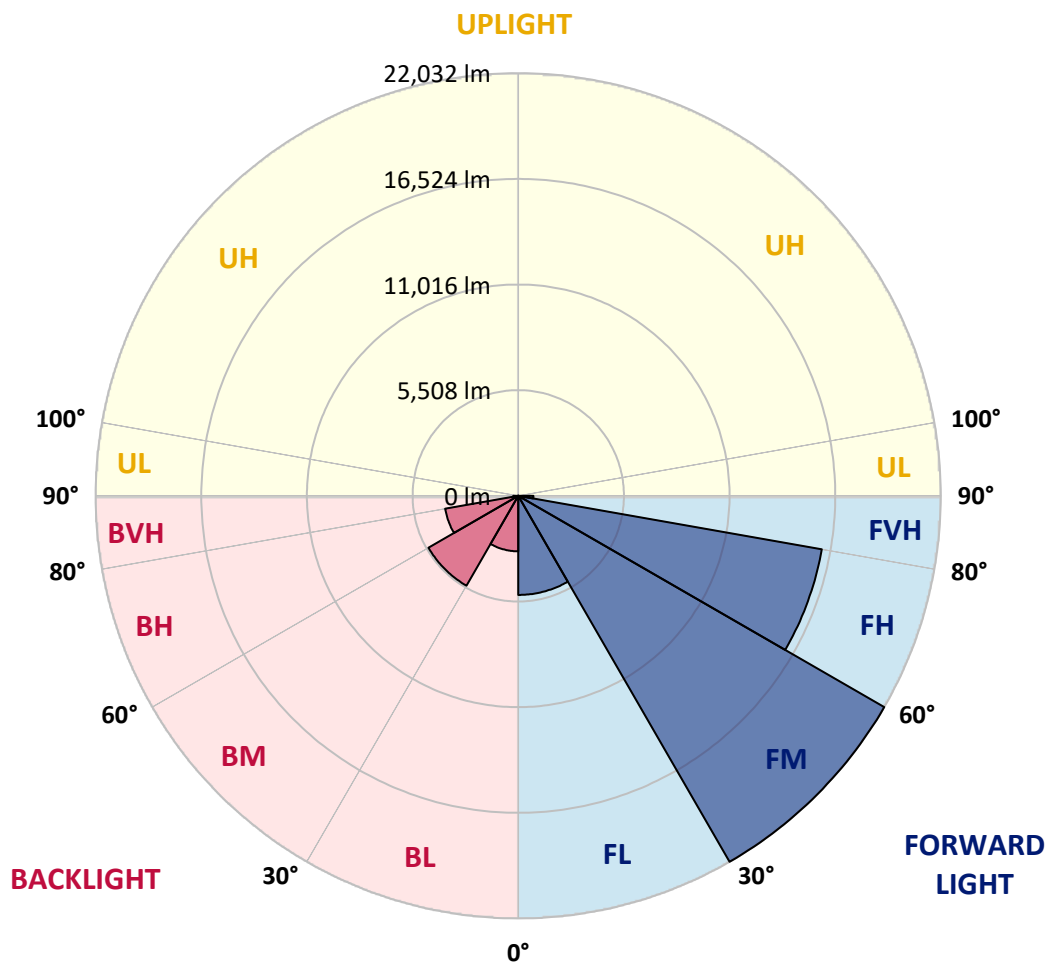
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5167.4	9.1			
FM	(30°-60°)	22032.2	39.0			
FH	(60°-80°)	16069.4	28.4			G5
FVH	(80°-90°)	789.9	1.4			G5
BL	(0°-30°)	2895.5	5.1	B4/5000		
BM	(30°-60°)	5406.1	9.6	B4/8500		
BH	(60°-80°)	3870.6	6.9	B4/5000		G4/5000
BVH	(80°-90°)	258.7	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°	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8
2.5°	11345.7	11292.0	11324.8	11312.9	11327.8	11345.7	11351.8	11360.7	11390.6	11387.6	11384.6
5°	11321.8	11268.0	11312.9	11298.0	11336.8	11378.6	11414.5	11447.4	11495.2	11516.1	11486.3
7.5°	11271.1	11235.2	11280.0	11324.8	11396.6	11459.3	11510.1	11584.9	11653.5	11665.5	11686.4
10°	10975.3	10948.3	11053.0	11169.4	11366.6	11537.0	11647.6	11734.2	11808.9	11820.9	11850.7
12.5°	10667.5	10634.6	10751.1	10909.5	11229.2	11537.0	11770.1	11883.6	11949.3	11988.2	12033.0
15°	10616.6	10589.8	10655.5	10792.9	11058.9	11456.3	11853.7	12062.9	12119.7	12164.5	12182.4
17.5°	10861.7	10810.9	10837.8	10885.6	11041.0	11381.6	11919.5	12266.1	12352.8	12400.6	12400.6
20°	11429.5	11357.7	11315.9	11220.3	11193.4	11393.6	11913.5	12511.2	12624.6	12684.5	12699.3
22.5°	12185.4	12137.6	12048.0	11805.9	11542.9	11540.0	12027.0	12824.9	13037.0	13093.8	13058.0
25°	13099.8	13028.1	12914.5	12585.9	12080.9	11829.8	12218.3	13225.3	13580.8	13595.8	13491.3
27.5°	14151.6	14044.0	13888.6	13455.4	12774.1	12284.0	12511.2	13685.4	14205.4	14199.4	13984.3
30°	15260.2	15152.6	14988.3	14462.3	13604.7	12896.6	12917.5	14181.5	14946.4	14913.5	14546.0
32.5°	16070.0	15989.3	15956.4	15550.0	14560.9	13619.7	13383.6	14731.3	15860.7	15830.9	15317.0
35°	16691.4	16586.9	16625.7	16419.6	15603.8	14429.4	13954.4	15385.7	16972.4	16969.4	16329.9
37.5°	17307.0	17214.4	17247.3	17109.8	16568.9	15457.4	14650.6	16186.5	18349.9	18415.6	17555.0
40°	17868.7	17770.1	17901.6	17773.2	17318.9	16551.0	15442.4	17091.9	19945.5	20070.9	19037.1
42.5°	18206.5	18128.8	18346.9	18349.9	17970.4	17474.3	16312.0	18089.9	21792.1	22073.0	20859.9
45°	18322.9	18296.0	18624.8	18693.4	18547.1	18009.2	17094.8	19177.5	23782.2	24284.2	22936.5
47.5°	18197.4	18146.7	18600.9	18854.9	18971.3	18260.2	17743.3	20354.9	25814.1	26549.1	25201.6
50°	17564.0	17465.4	18140.7	18675.5	19090.9	18424.6	18397.6	21714.4	28123.8	28927.7	27478.4
52.5°	16425.5	16350.8	17118.7	18048.0	18827.9	18505.2	19132.8	23199.5	30317.1	31357.0	29812.1
55°	14970.3	14871.7	15717.4	16930.5	18173.6	18478.3	19867.8	24860.9	32904.9	33959.6	32223.5
57.5°	12663.5	12466.3	13536.0	14970.3	17106.8	18445.5	20632.7	26513.3	35534.3	36798.3	34796.3
60°	9298.9	9006.1	10317.9	12018.1	15021.1	18125.7	21579.9	28366.0	38689.8	39828.2	37605.1
62.5°	5414.5	5244.1	6101.7	7688.3	11321.8	16243.3	22111.8	30520.3	41791.4	42986.7	40366.0
65°	4204.2	4156.5	4231.1	4353.7	6301.9	12161.5	20471.4	32620.9	45735.7	46572.3	43243.6
67.5°	3845.7	3809.8	3842.7	3612.6	3197.3	6774.0	16195.4	33152.8	49960.9	50468.7	45762.6
70°	3418.4	3376.6	3484.1	3286.9	2516.0	3080.7	10464.3	31222.5	53322.4	54275.6	47677.9
72.5°	2784.9	2737.1	2988.1	2898.5	2118.6	1978.1	5256.0	26635.9	52969.8	54947.9	46306.4
75°	2139.5	2112.6	2411.4	2486.1	1727.1	1556.8	2521.9	19799.1	46614.1	48607.2	39908.9
77.5°	1661.4	1640.4	1792.8	2064.8	1392.5	1207.1	1550.8	12558.9	35128.0	35477.6	27502.4
80°	1246.0	1186.2	1326.8	1598.6	1084.7	881.5	1051.9	7323.8	22204.5	20127.7	11970.3
82.5°	779.9	750.0	866.5	1066.7	765.0	606.6	684.3	4045.9	8898.5	5241.1	2309.8
85°	445.3	433.3	472.1	609.6	415.3	349.6	391.4	1786.9	1625.5	1117.6	696.2
87.5°	179.3	173.3	215.1	271.9	152.4	128.5	137.5	430.3	358.5	331.7	230.1
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°	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8	11339.8
2.5°	11372.7	11372.7	11330.9	11265.1	11190.3	11142.6	11064.9	11044.0	10963.3	10939.4	10978.3
5°	11510.1	11486.3	11357.7	11172.5	10918.5	10685.4	10428.5	10267.1	10040.0	9959.3	10019.1
7.5°	11683.5	11617.7	11396.6	10990.2	10458.3	9935.4	9391.6	8979.2	8584.8	8444.4	8462.3
10°	11841.8	11749.2	11372.7	10661.5	9741.2	8835.8	7969.3	7362.7	6902.5	6714.3	6756.1
12.5°	12000.2	11829.8	11214.3	10114.7	8722.2	7494.1	6570.8	6098.6	5814.8	5587.7	5662.4
15°	12149.5	11910.5	10969.2	9382.5	7604.7	6358.7	5677.4	5300.9	5073.8	4924.4	4951.3
17.5°	12322.9	11979.3	10601.8	8453.3	6540.9	5572.8	5017.0	4789.9	4745.0	4727.2	4739.1
20°	12564.9	12042.0	10117.7	7413.4	5758.0	4945.3	4658.4	4637.5	4634.5	4625.5	4655.4
22.5°	12824.9	12116.7	9478.2	6469.2	5091.7	4553.9	4503.0	4461.2	4434.4	4431.4	4464.2
25°	13132.6	12140.6	8677.4	5695.3	4523.9	4368.5	4308.8	4246.1	4228.1	4228.1	4246.1
27.5°	13431.5	12059.9	7745.1	5023.0	4204.2	4198.3	4120.6	4099.7	4096.6	4105.6	4129.5
30°	13730.3	11907.5	6818.8	4401.5	4019.0	4019.0	3992.1	4007.0	4019.0	4048.9	4069.8
32.5°	14133.6	11746.2	6044.9	3941.3	3857.6	3827.8	3854.6	3884.5	3896.4	3935.3	3968.2
35°	14725.3	11632.6	5429.3	3690.3	3690.3	3651.5	3666.4	3660.4	3633.5	3615.6	3657.4
37.5°	15508.1	11626.7	4921.3	3573.8	3549.9	3543.8	3546.9	3508.1	3403.4	3278.0	3280.9
40°	16449.4	11788.0	4530.0	3493.1	3475.2	3511.0	3493.1	3388.4	3101.6	2883.5	2877.5
42.5°	17713.3	12248.1	4279.0	3394.5	3448.2	3493.1	3421.3	3059.8	2865.6	2719.1	2713.2
45°	19201.4	12995.2	4150.4	3289.8	3397.5	3451.3	3104.6	2946.3	2790.9	2614.6	2602.6
47.5°	20886.7	13936.4	4120.6	3191.2	3283.9	3316.8	2970.1	2898.5	2722.2	2530.9	2516.0
50°	22721.4	15051.0	4201.3	3074.7	3119.6	3006.0	2925.4	2859.6	2677.3	2489.1	2468.2
52.5°	24618.9	16279.0	4362.6	2916.3	2955.2	2829.7	2907.4	2850.6	2650.4	2396.4	2378.5
55°	26483.4	17516.1	4518.0	2731.1	2787.9	2671.4	2856.6	2814.8	2528.0	2241.1	2226.1
57.5°	28377.8	18747.2	4670.4	2566.8	2626.6	2518.9	2775.9	2719.1	2390.5	2097.7	2091.6
60°	30347.0	19942.5	4742.1	2408.4	2450.3	2378.5	2653.4	2554.8	2235.1	1951.2	1942.3
62.5°	32190.6	20937.6	4625.5	2250.1	2276.9	2247.0	2492.1	2360.6	2079.7	1786.9	1783.9
65°	34040.2	21529.2	4267.0	2094.7	2100.6	2085.7	2264.9	2151.4	1897.5	1643.5	1625.5
67.5°	35716.6	21860.9	3696.3	1927.3	1912.3	1906.4	2052.8	1924.3	1721.2	1500.0	1482.0
70°	36072.2	21018.2	2823.8	1730.1	1730.1	1715.1	1819.8	1688.3	1526.9	1347.7	1341.6
72.5°	32946.7	17680.5	2005.0	1506.0	1529.9	1500.0	1586.7	1476.1	1329.7	1210.2	1174.3
75°	26567.1	12965.3	1458.2	1275.9	1317.7	1266.9	1347.7	1270.0	1144.4	1141.4	1027.9
77.5°	18254.2	8017.0	1057.8	1051.9	1081.7	1016.0	1108.5	1066.7	953.2	902.4	845.6
80°	7789.9	3197.3	770.9	812.7	812.7	753.0	860.6	872.5	773.9	750.0	750.0
82.5°	1550.8	908.4	540.9	558.7	525.9	508.0	609.6	675.3	932.2	1036.9	1039.9
85°	466.2	334.7	325.7	304.8	269.0	271.9	358.5	678.3	836.7	478.1	412.4
87.5°	128.5	83.6	86.6	68.7	56.8	74.7	122.5	513.9	280.8	119.5	101.6
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)